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MEMORANDUM

DATE: July 7, 2023

TO: Rick Martinez, Managing Director, Magellan Value Partners

FROM: Ronald Brugger, Senior Air Quality Specialist

SUBJECT: Air Quality and Greenhouse Gas Emissions Impact Analysis Memorandum for the proposed West Foothill Development Project in Upland, California

INTRODUCTION

This air quality and greenhouse gas (GHG) emissions impact analysis for the proposed West Foothill Development Project (project) located at 1780 West Foothill Boulevard in Upland, San Bernardino County, California (project) has been prepared using methods and assumptions recommended in the South Coast Air Quality Management District (SCAQMD) *CEQA Air Quality Handbook* (SCAQMD 1993). This analysis includes a description of existing regulatory framework, an assessment of project operational air quality emissions and GHG emissions. Measures to reduce or eliminate significant impacts are identified where appropriate.

PROJECT LOCATION

The 6.05-acre (ac) project site is located at 1780 West Foothill Boulevard in Upland. The site is located approximately 1.2 miles (mi) from Interstate 10 (I-10) and Interstate 210 (I-210). The site is located between Central Avenue and North Benson Avenue, and is bound by Foothill Boulevard to the north and Upland Sports Arena to the south. The site is designated as Commercial/Industrial Mixed-Use (C/I-MU) under the City of Upland (City) General Plan and zoning map. The C/I-MU designation is intended for a variety of industrial and regional retail uses, including warehousing, retail commercial, and food/institutional uses. Figure 1 shows the project location and vicinity (all figures are provided in Attachment A). Figure 2 shows the project site and adjacent land uses.

PROJECT DESCRIPTION

The project consists of demolition of approximately 19,000 square feet (sf) of existing structures and an on-site septic tank, and construction of one 3,570 sf restaurant with a drive-through and 94,435 sf of warehouse space divided into two buildings, which include up to 10,000 sf of combined office space/mezzanine and a total of 12 loading docks.[1] The proposed restaurant and warehouse buildings are speculative, but the warehouses would not include cold storage during operations. The

[1] The Initial Study and supporting technical studies evaluate the proposed warehouse buildings with a combined 101,092 sf of space, while the latest plans dated February 9, 2023 and submitted to the City indicate the proposed warehouse space totals approximately 94,435 sf. Accordingly, the environmental analysis assumes a greater square footage than proposed and therefore discloses potentially greater environmental effects than would occur under the proposed project.

project includes 213 parking stalls, of which 93 would be standard parking stalls, 10 Americans with Disabilities (ADA) parking stalls, 25 clean air vehicle (CAV) parking stalls, and 85 compact parking stalls. No trailer parking stalls would be included with the project. The project includes a total of 39,469 sf of landscaping. Figure 3 shows the site plan.

The proposed use is consistent with the site's existing General Plan and zoning designation; therefore, no General Plan Amendment or Zone Change is required. Construction of the project would commence in late 2023 and would occur for approximately 12 months. Grading activities would result in approximately 12,403 cubic yards (cy) of soil export and 61,158 cy of soil import (48,755 cy of soil import overall).

Sensitive Receptors and Land Uses in the Project Vicinity

Sensitive receptors include residences such as private homes, condominiums, apartments, and living quarters, schools, preschools, daycare centers, in-home daycares, health facilities (e.g., hospitals, long-term care facilities, retirement and nursing homes), community centers, places of worship, parks (excluding trails), prisons, and dormitories. Industrial uses are located west of the site, the Goodwill Industries store and light industrial uses are located to the east, and the Upland Sports Arena (indoor soccer and climbing gym) is located 80 feet to the south. The nearest sensitive receptor in proximity to the project site is a single-family residence located across Foothill Boulevard, approximately 125 feet to the northeast. (All distances are from the project site boundary to the identified building.)

ENVIRONMENTAL SETTING

Air Quality Background

Air quality is primarily a function of local climate, local sources of air pollution, and regional pollution transport. The amount of a given pollutant in the atmosphere is determined by the amount of the pollutant released and the atmosphere's ability to transport and dilute the pollutant. The major determinants of transport and dilution are wind, atmospheric stability, terrain and, for photochemical pollutants, sunshine.

A region's topographic features have a direct correlation with air pollution flow and therefore are used to determine the boundary of air basins. The project site is in Upland in San Bernardino County, which is part of the South Coast Air Basin (Basin) and is under the jurisdiction of SCAQMD. This Basin includes all of Orange County and the non-desert portions of Los Angeles, San Bernardino, and Riverside Counties. Both the State of California (State) and the federal government have established health-based ambient air quality standards (AAQS) for seven air pollutants. As detailed in Table A, these pollutants include ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter less than 10 microns in size (PM_{10}), particulate matter less than 2.5 microns in size ($PM_{2.5}$), and lead. In addition, the State has set standards for sulfates, hydrogen sulfide (H_2S), vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety.

Table A: Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[1]		National Standards[2]		
		Concentration[3]	Method[4]	Primary[3,5]	Secondary[3,6]	Method[7]
O_3[8]	1-Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8-Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM_{10})[9]	24-Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter ($PM_{2.5}$)[9]	24-Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
CO	1-Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8-Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8-Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
NO_2[10]	1-Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
SO_2[11]	1-Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3-Hour	—		—	0.5 ppm (1,300 µg/m³)	
	24-Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30-Day Average	1.5 µg/m³	Atomic Absorption	—	—	High-Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[13]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility-Reducing Particles[14]	8-Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24-Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1-Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24-Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

Source: California Air Resources Board (CARB). 2016. *Ambient Air Quality Standards*. May 4. Website: www.arb.ca.gov/sites/default/files/2020-07/aaqs2.pdf (accessed February 2023).
Footnotes are provided on the following page.

[1] California standards for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1- and 24-hour), NO_2, and PM (PM_{10}, $PM_{2.5}$, and visibility-reducing particles) are values that are not to be exceeded. All others are not to be equaled or exceeded. California AAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[2] National standards (other than for O_3 and PM and those based on the annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth-highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over 3 years, are equal to or less than the standard. Contact the EPA for further clarification and current national policies.

[3] Concentration expressed first in the units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[4] Any equivalent measurement method that can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

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

[6] National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[7] The reference method as described by the EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the EPA.

[8] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[9] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 µg/m³, as was the annual secondary standard of 15 µg/m³. The existing 24-hour PM_{10} standards (primary and secondary) of 150 µg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

[10] To attain the 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[11] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated as Nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard, the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

[12] CARB has identified lead and vinyl chloride as "toxic air contaminants" with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[13] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated as Nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standards are approved.

[14] In 1989, CARB converted both the general statewide 10 mi visibility standard and the Lake Tahoe 30 mi visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

°C = degrees Celsius
µg/m³ = micrograms per cubic meter
AAQS = ambient air quality standards
CARB = California Air Resources Board
CO = carbon monoxide
EPA = United States Environmental Protection Agency
mg/m³ = milligrams per cubic meter
mi = mile/miles
NO_2 = nitrogen dioxide
O_3 = ozone
PM = particulate matter
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
ppb = parts per billion
ppm = parts per million
SO_2 = sulfur dioxide

Air quality in the planning area is affected not only by various emission sources (e.g., mobile and industry) but also by atmospheric conditions (e.g., wind speed, wind direction, temperature, and rainfall). The regional climate within the Basin is considered semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. The air quality within the Basin is primarily influenced by a wide range of emissions sources (e.g., dense population centers, heavy vehicular traffic, and industry) and meteorology.

Upland is in southern San Bernardino County, between the San Gabriel and Jurupa mountain ranges. Upland is affected by the strong, dry Santa Ana winds as they blow through the nearby Cajon Pass of the San Gabriel Mountains from the Mojave Desert. Upland's climate is generally hot summers and cool, partly cloudy winters. Average annual precipitation is 14 inches. The climatological stations closest to the site are the Upland station and the Lytle Creek station east of the project site.

Table B summarizes the most common health and environmental effects for each of the air pollutants for which there is a federal AAQS (FAAQS) and/or California AAQS (CAAQS), as well as for toxic air contaminants (TACs). Because the concentration standards were set at a level that protects public health with an adequate margin of safety (by the United States Environmental Protection Agency [EPA]), these health effects would not occur unless the standards are exceeded by a large margin or for a prolonged period of time. CAAQS are typically more stringent than FAAQS. Among the pollutants, O_3 and particulate matter ($PM_{2.5}$ and PM_{10}) are considered pollutants with regional effects, while the others have more localized effects (CARB 2022a).

The California Clean Air Act (CCAA) provides SCAQMD and other air districts with the authority to manage transportation activities at indirect sources. Indirect sources of pollution include any facility, building, structure, or installation, or combination thereof, that attracts or generates mobile-source emissions of any pollutant. In addition, area-source emissions that are generated when minor sources collectively emit a substantial amount of pollution are also managed by the local air districts. Examples of this would be the motor vehicles at an intersection, at a mall, and on highways. SCAQMD also regulates stationary sources of pollution throughout its jurisdictional area. The California Air Resources Board (CARB) regulates direct emissions from motor vehicles.

Air Pollution Constituents and Attainment Status

The CARB coordinates and oversees both State and federal air pollution control programs in the State. The CARB oversees activities of local air quality management agencies and maintains air quality monitoring stations throughout the State in conjunction with the EPA and local air districts. The CARB has divided the State into 15 air basins based on meteorological and topographical factors of air pollution. Data collected at these stations are used by the CARB and EPA to classify air basins as Attainment, Nonattainment, Nonattainment-Transitional, or Unclassified, based on air quality data for the most recent 3 calendar years compared with the AAQS.

Table B: Summary of Health and Environmental Effects of the Criteria Air Pollutants

Pollutant	Effects on Health and the Environment
Ozone (O_3)	• Respiratory symptoms • Worsening of lung disease leading to premature death • Damage to lung tissue • Crop, forest, and ecosystem damage • Damage to a variety of materials, including rubber, plastics, fabrics, paint, and metals
Particulate matter less than 2.5 microns in size ($PM_{2.5}$)	• Premature death • Hospitalization for worsening of cardiovascular disease • Hospitalization for respiratory disease • Asthma-related emergency room visits • Increased symptoms, increased inhaler usage
Particulate matter less than 10 microns size (PM_{10})	• Premature death and hospitalization, primarily for worsening of respiratory disease • Reduced visibility and material soiling
Nitrogen oxides (NO_X)	• Lung irritation • Enhanced allergic responses
Carbon monoxide (CO)	• Chest pain in patients with heart disease • Headache • Light-headedness • Reduced mental alertness
Sulfur oxides (SO_X)	• Worsening of asthma: increased symptoms, increased medication usage, and emergency room visits
Lead	• Impaired mental functioning in children • Learning disabilities in children • Brain and kidney damage
Hydrogen sulfide (H_2S)	• Nuisance odor (rotten egg smell) • At high concentrations: headache & breathing difficulties
Sulfate	• Same as $PM_{2.5}$, particularly worsening of asthma and other lung diseases • Reduces visibility
Vinyl chloride	• Central nervous system effects (e.g., dizziness, drowsiness, and headaches) • Long-term exposure (i.e., liver damage and liver cancer)
Visibility reducing particles	• Reduced airport safety, scenic enjoyment, road safety, and discourages tourism
Toxic air contaminants (TACs). About 200 chemicals have been listed as TACs.	• Cancer • Reproductive and developmental effects • Neurological effects

Source: California Air Resources Board (CARB). n.d.-a. Common Air Pollutants. Website: www.arb.ca.gov/resources/common-air-pollutants (accessed February 2023).

Attainment areas may be the following:

- **Attainment/Unclassified ("Unclassifiable" in Some Lists):** These basins have never violated the air quality standard of interest or do not have enough monitoring data to establish Attainment or Nonattainment status.

- **Attainment-Maintenance (National Ambient Air Quality Standards [NAAQS] Only):** These basins violated a NAAQS that is currently in use (were Nonattainment) in or after 1990, but now attain the standard and are officially redesignated as Attainment by the EPA with a Maintenance State Implementation Plan (SIP).

- **Attainment (Usually Only for CAAQS, But Sometimes for NAAQS):** These basins have adequate monitoring data to show attainment, have never been Nonattainment, or, for NAAQS, have completed the official Maintenance period.

Nonattainment areas are imposed with additional restrictions as required by the EPA. The air quality data are also used to monitor progress in attaining air quality standards. Table C lists the attainment status for the criteria pollutants in the Basin.

Table C: Attainment Status of Criteria Pollutants in the South Coast Air Basin

Pollutant	State	Federal
O_3	Nonattainment (1-hour) Nonattainment (8-hour)	Extreme Nonattainment (1-hour) Extreme Nonattainment (8-hour)
PM_{10}	Nonattainment (24-hour) Nonattainment (Annual)	Attainment-Maintenance (24-hour)
$PM_{2.5}$	Nonattainment (Annual)	Serious Nonattainment (24-hour) Moderate Nonattainment (Annual)
CO	Attainment (1-hour) Attainment (8-hour)	Attainment-Maintenance (1-hour) Attainment-Maintenance (8-hour)
NO_2	Attainment (1-hour) Attainment (Annual)	Attainment/Unclassified (1-hour) Attainment-Maintenance (Annual)
SO_2	Attainment (1-hour) Attainment (24-hour)	Attainment/Unclassified (1-hour) Attainment/Unclassified (Annual)
Lead[1]	Attainment (30-day average)	Attainment (3-month rolling)
All Others	Attainment/Unclassified	N/A

Source: South Coast Air Quality Management District (SCAQMD). 2016b. *National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin*. Website: www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf (accessed February 2023).

[1] Only the Los Angeles County portion of the Basin is in nonattainment for lead.

CO = carbon monoxide
N/A = not applicable
NO_2 = nitrogen dioxide
O_3 = ozone
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SO_2 = sulfur dioxide

Local Air Quality

The SCAQMD, together with the CARB, maintains ambient air quality monitoring stations. The air quality monitoring station that monitors air pollutant data closest to the site is the Upland Monitoring Station at 1350 San Bernardino Road, Upland, California, approximately 3 mi east of the project site. The air quality trends from this station are used to represent the ambient air quality in the project area. The ambient air quality data in Table D show that CO, $PM_{2.5}$, and NO_2 levels are below the applicable State and federal standards. However, annual average concentrations of PM_{10} and O_3 concentrations frequently exceed their respective standards.

Table D: Air Quality Concentrations in the Project Vicinity

Pollutant	Standard	2019	2020	2021
CO				
Maximum 1-hour concentration (ppm)		1.5	1.5	1.3
No. of days exceeded	State: 20 ppm	0	0	0
	Federal: 35 ppm	0	0	0
Maximum 8-hour concentration (ppm)		1.1	1.1	1.1
No. of days exceeded	State: 9 ppm	0	0	0
	Federal: 9 ppm	0	0	0
O_3				
Maximum 1-hour concentration (ppm)		0.131	0.158	0.124
No. of days exceeded	State: 0.09 ppm	31	82	42
Max 8-hour concentration (ppm)		0.107	0.123	0.100
No. of days exceeded	State: 0.07 ppm	52	116	78
	Federal: 0.07 ppm	52	116	78
PM_{10}				
Maximum 24-hour concentration (µg/m³)		125.9	174.8	124.3
No. of days exceeded	State: 50 µg/m³	ND	8	5
	Federal: 150 µg/m³	0	1	0
Annual avg. concentration (µg/m³)		29.0	33.5	32.6
Exceeds Standard?	State: 20 µg/m³	Yes	Yes	Yes
$PM_{2.5}$				
Maximum 24-hour concentration (µg/m³)		91.1	74.0	83.8
No. of days exceeded	Federal: 35 µg/m³	2	ND	ND
Annual avg. concentration (µg/m³)		9.2	11.9	11.9
Exceeds Standard?	State: 12 µg/m³	No	No	No
	Federal: 12 µg/m³	No	No	No
NO_2				
Maximum 1-hour concentration (ppb):		57.9	55.4	64.6
No. of days exceeded	State: 180 ppb	0	0	0
	Federal: 100 ppb	0	0	0
Annual avg. concentration (ppb):		14	13	14
Exceeds standard?	State: 30 ppb	No	No	No
	Federal: 53 ppb	No	No	No

Source 1: Air Data: Air Quality Data Collected at Outdoor Monitors across the U.S. (EPA n.d.)
Source 2: California Air Resource Board. n.d.-b. iADAM.
Note: Pollutant concentration data from the Upland Monitoring Station at 1350 San Bernardino Road, Upland, California.

µg/m³ = micrograms per cubic meter
CARB = California Air Resources Board
CO = carbon monoxide
ND = No data available
NO_2 = nitrogen dioxide
O_3 = ozone
$PM_{2.5}$ = particulate matter smaller than 2.5 microns in size
PM_{10} = particulate matter smaller than 10 microns in size
ppb = parts per billion
ppm = parts per million

Greenhouse Gas Background

GHGs are present in the atmosphere naturally, are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. The gases that are widely seen as the principal contributors to human-induced climate change are the following:[1]

[1] The greenhouse gases listed are consistent with the definition in Assembly Bill 32 (Government Code 38505), as discussed later in this document.

- Carbon dioxide (CO_2)
- Methane (CH_4)
- Nitrous oxide (N_2O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulfur hexafluoride (SF_6)

Over the last 200 years, human activities have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect, which can cause global warming. Although GHGs produced by human activities include naturally occurring GHGs (e.g., CO_2, CH_4, and N_2O), some gases (e.g., HFCs, PFCs, and SF_6) are completely new to the atmosphere. Water vapor is a GHG, but it is generally excluded from the list of GHGs because it is short-lived in the atmosphere, and its atmospheric concentrations are largely determined by natural processes (e.g., oceanic evaporation). For the purposes of this air quality study, the term "GHGs" will refer collectively to the six gases identified in the bulleted list provided above.

These GHGs vary considerably in terms of global warming potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. GWP is based on several factors, including the relative effectiveness of a gas in absorbing infrared radiation and the length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2, the most abundant GHG. The definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. For example, N_2O is from 265 to 310 times more potent at contributing to global warming than CO_2. GHG emissions are typically measured in terms of metric tons of CO_2 equivalents (MT CO_2e). Table E identifies the GWP for the three GHGs analyzed in this report. The EPA and CARB use GWP values from the 2007 Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (AR4). The IPCC has published the 2021 IPCC Sixth Assessment Report (AR6) with updated GWP values.

Table E: Global Warming Potential for Selected Greenhouse Gases

Pollutant	2022 Scoping Plan Values from the Fourth Assessment Report (AR4)	Sixth Assessment Report (AR6) Values
Carbon dioxide (CO_2)	1 (by definition)	1 (by definition)
Methane (CH_4)	25	29.8 ± 11
Nitrous oxide (N_2O)	298	273 ± 130

Source 1: California Air Resources Board (CARB). 2022a. *2022 Scoping Plan for Achieving Carbon Neutrality*. Website: www.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents (accessed February 2023).

Source 2: Intergovernmental Panel on Climate Change (IPCC). 2021. Climate Change 2021: The Physical Science Basis, Sixth Assessment Report. Website: www.ipcc.ch/report/ar6/wg1/ (accessed February 2023).

Note: The EPA and CARB use global warming potential values from the IPCC Fourth Assessment Report (2007).

EPA = United States Environmental Protection Agency

REGULATORY SETTING

This section provides regulatory background information for air quality and GHG emissions.

Air Quality

Federal Regulations

The 1970 federal Clean Air Act (CAA) authorized the establishment of national health-based air quality standards and set deadlines for their attainment. The CAA Amendments of 1990 changed deadlines for attaining national standards as well as the remedial actions required for areas of the nation that exceed the standards. Under the CAA, State and local agencies in areas that exceed the national standards are required to develop SIPs to demonstrate how they will achieve the national standards by specified dates.

State Regulations

In 1988, the California Clean Air Act (CCAA) required that all air districts in the State endeavor to achieve and maintain CAAQS for CO, O_3, SO_2, and NO_2 by the earliest practical date. The CCAA provides districts with authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and area-wide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in district-wide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

The CARB is the State's "clean air agency." The CARB's goals are to attain and maintain healthy air quality, protect the public from exposure to toxic air contaminants, and oversee compliance with air pollution rules and regulations.

Regional Regulations

The SCAQMD and Southern California Association of Governments (SCAG_ are responsible for formulating and implementing the Air Quality Management Plan (AQMP) for the Basin. The main purpose of an AQMP is to bring the area into compliance with federal and State air quality standards. The SCAQMD prepares a new AQMP every 3 years, updating the previous plan and a 20-year horizon.

The latest plan is the 2022 AQMP (SCAQMD 2022), adopted December 2, 2022. On October 1, 2015, the EPA strengthened the NAAQS for ground-level ozone, lowering the primary and secondary ozone standard levels to 70 parts per billion (ppb). The Basin is classified as an "extreme" nonattainment area, and the Coachella Valley is classified as a "severe-15" nonattainment area for the 2015 Ozone NAAQS. The 2022 AQMP was developed to address the requirements for meeting this standard.

The 2022 AQMP builds upon measures already in place from previous AQMPs. It also includes a variety of additional strategies such as regulation, accelerated deployment of available cleaner

technologies (e.g., zero emissions technologies, when cost-effective and feasible, and low NO_X technologies in other applications), best management practices, co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and other CAA measures to achieve the 2015 8-hour ozone standard

The SCAQMD adopts rules and regulations to implement portions of the AQMP. Several of these rules may apply to project construction or operation. For example, SCAQMD Rule 403 requires the implementation of the best-available fugitive dust control measure during active construction periods capable of generating fugitive dust emissions from on-site earth-moving activities, construction/demolition activities, and construction equipment travel on paved and unpaved roads.

Although the SCAQMD is responsible for regional air quality planning efforts, it does not have the authority to directly regulate the air quality issues associated with new development projects within the Basin (e.g., the proposed project). Instead, the SCAQMD published the *CEQA Air Quality Handbook* (SCAQMD 1993) to assist lead agencies, as well as consultants, project proponents, and other interested parties, in evaluating potential air quality impacts of projects proposed in the Basin. The *CEQA Air Quality Handbook* provides standards, methodologies, and procedures for conducting air quality analyses in Environmental Impact Reports (EIRs) and was used extensively in the preparation of this analysis. The SCAQMD is currently in the process of replacing the *CEQA Air Quality Handbook* (1993) with the *Air Quality Analysis Guidance Handbook* (SCAQMD n.d.).

To assist the California Environmental Quality Act (CEQA) practitioner in conducting an air quality analysis in the interim while the replacement *Air Quality Analysis Guidance Handbook* is being prepared, supplemental guidance/information is provided on the SCAQMD website and includes (1) on-road vehicle emission factors, (2) background CO concentrations, (3) localized significance thresholds (LSTs), (4) mitigation measures and control efficiencies, (5) mobile-source toxics analysis, (6) off-road mobile-source emission factors, (7) $PM_{2.5}$ significance thresholds and calculation methodology, and (8) updated SCAQMD Air Quality Significance Thresholds. The SCAQMD also recommends using approved models to calculate emissions from land use projects, such as the California Emissions Estimator Model (CalEEMod). These recommendations were followed in the preparation of this analysis.

The following SCAQMD rules and regulations would apply to the proposed project:

- SCAQMD Rule 403 (SCAQMD 2005) requires projects to incorporate fugitive dust control measures.

- SCAQMD Rule 1113 (SCAQMD 2016a) limits the volatile organic compound (VOC) content of architectural coatings.

The proposed project would be required to comply with regional rules that assist in reducing short-term air pollutant emissions. SCAQMD Rule 403 requires that fugitive dust be controlled with best available control measures so the presence of such dust does not remain visible in the atmosphere beyond the property line of the emission source. In addition, SCAQMD Rule 403 requires implementation of dust suppression techniques to prevent fugitive dust from creating a nuisance off site. SCAQMD Rule 1113 limits the volatile organic compound (VOC) content of architectural

coatings. Applicable dust suppression techniques from SCAQMD Rule 403 and low VOC content in paints under SCAQMD Rule 1113 are summarized below. Implementation of these dust suppression techniques can reduce the fugitive dust generation (and thus the PM_{10} component). Compliance with these rules would reduce impacts on nearby sensitive receptors.

- **SCAQMD Rule 403 Measures:**
    - Water active sites at least twice times daily (locations where grading is to occur will be thoroughly watered prior to earthmoving).
    - All trucks hauling dirt, sand, soil, or other loose materials are to be covered or should maintain at least 2 feet of freeboard in accordance with the requirements of California Vehicle Code (CVC) Section 23114 (freeboard means vertical space between the top of the load and top of the trailer).
    - Traffic speeds on all unpaved roads shall be reduced to 15 miles per hour (mph) or less.
- **SCAQMD Rule 1113 Measures:** SCAQMD Rule 1113 governs the sale, use, and manufacturing of architectural coating and limits the VOC content in paints and paint solvents. This rule regulates the VOC content of paints available during construction and operation of the proposed project. Therefore, all paints and solvents used during construction and operation of the proposed project must comply with SCAQMD Rule 1113.

Local Regulations

City of Upland General Plan. The City's General Plan, adopted in September 2015, provides a comprehensive and integrated "constitution" for growth and preservation in Upland, which forms the basis for all other City plans, programs, ordinances and operations (City of Upland 2015). In 2005, the City underwent an extensive community visioning exercise. The resulting vision provides a framework for the development of focused goals and policies within each General Plan Element. The General Plan Update process began in 2008 and was informed by ongoing input from residents, businesses, developers, and decision-makers over the course of its development. The following policies are applicable to the proposed project:

- **Mixed Retail Development:** Encourage employment areas to include a mix of retail support services, and allow new small-scale retail and service uses within established residential neighborhoods to reduce vehicle trips.
- **Separation of Sensitive Land Uses:** To the extent practicable, separate sensitive land uses (e.g., schools, senior centers, medical facilities, and residences) from significant sources of air pollutants, toxic air contaminants, or odor emissions.
- **Protect All Residents Equally:** Ensure that all land use decisions are made in an equitable manner in order to protect residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location from the health effects of air pollution.

Greenhouse Gas Emissions

This section describes regulations related to global climate change at the federal, State, and local level.

Federal Regulations

The United States has historically had a voluntary approach to reducing GHG emissions; however, on April 2, 2007, the United States Supreme Court ruled that the EPA has the authority to regulate CO_2 emissions under the CAA. The Supreme Court ruled that GHGs fit within the CAA's definition of a pollutant and that the EPA did not have a valid rationale for not regulating GHGs. In December 2009, the EPA issued an endangerment finding for GHGs under the CAA.

On December 7, 2009, the EPA Administrator signed a final action under the CAA, finding that six GHGs (i.e., CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6) constitute a threat to public health and welfare and that the combined emissions from motor vehicles cause and contribute to global climate change.

On September 15, 2011, the EPA and the United States Department of Transportation (USDOT) issued the final rule for the first national standards to improve the fuel efficiency of medium- and heavy-duty trucks and buses, model years 2014 to 2018. For combination tractors, the agencies proposed engine and vehicle standards that would achieve up to a 20 percent reduction from model year 2014 in fuel consumption by the 2018 model year. For heavy-duty pickup trucks and vans, the agencies proposed separate gasoline and diesel truck standards, which would achieve up to a 10 percent reduction from model year 2014 for gasoline vehicles and a 15 percent reduction for diesel vehicles (12 and 17 percent, respectively, if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10 percent reduction from model year 2014 in fuel consumption. On October 25, 2016, the EPA and USDOT issued Phase 2 of the national standards to improve fuel efficiency standards for medium- and heavy-duty trucks and buses for model years 2021 to 2027 to achieve vehicle fuel savings as high as 25 percent, depending on the vehicle category.

The current administration finalized updated CAFE Standards for model years 2024 through 2026. The final rule establishes standards that would require an industry-wide fleet average of approximately 49 miles per gallon (mpg) for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8 percent annually for model years 2024 and 2025, and 10 percent annually for model years 2026. The agency projects that the final standards will save consumers nearly $1,400 in total fuel expenses over the lifetimes of vehicles produced in these model years and avoid the consumption of about 234 billion gallons of gas between model years 2030 to 2050. The National Highway Traffic Safety Administration also projects that the standards will cut GHGs from the atmosphere, reduce air pollution, and reduce the country's dependence on oil.

State Agencies

California Air Resources Board. In 1967, the State Legislature passed the Mulford-Carrell Act, which combined two Department of Health bureaus (i.e., the Bureau of Air Sanitation and the Motor Vehicle Pollution Control Board) to establish CARB. Since its formation, CARB has worked with the public, the business sector, and local governments to find solutions to the State's air pollution

problems. California adopted the CCAA in 1988. CARB administers the CAAQS for the 10 air pollutants designated in the CCAA. These 10 State air pollutants are the six criteria pollutants designated by the federal CAA as well as four others: visibility-reducing particulates, H_2S, sulfates, and vinyl chloride.

The California Global Warming Solutions Act of 2006, widely known as Assembly Bill (AB) 32, requires CARB to develop and enforce regulations for the reporting and verification of statewide GHG emissions. CARB was directed to set a statewide GHG emissions limit and set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner.

In 2016, the Legislature passed, and Governor Jerry Brown signed, Senate Bill (SB) 32 and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 Executive Order (EO) B-30-15. SB 32 builds on AB 32 and keeps California on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an IPCC analysis of the emissions trajectory that would stabilize atmospheric GHG concentrations at 450 parts per million (ppm) CO_2e and reduce the likelihood of catastrophic impacts from climate change. The companion bill to SB 32 (i.e., AB 197) provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions.

CARB adopted the 2022 Scoping Plan Update on December 15, 2022. The 2022 Scoping Plan Update assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan Update focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

SB 97 and *State CEQA Guidelines*. In August 2007, the Legislature adopted SB 97, requiring the Office of Planning and Research (OPR) to prepare and transmit new CEQA guidelines for the mitigation of GHG emissions or the effects of GHG emissions to the California Natural Resources Agency. The OPR submitted its proposed guidelines to the Secretary for Natural Resources on April 13, 2009, and the *State CEQA Guidelines* amendments became effective on March 18, 2010.

The *State CEQA Guidelines* amendments do not specify a threshold of significance for GHG emissions or prescribe assessment methodologies or specific mitigation measures. Instead, the amendments encourage lead agencies to consider many factors in performing a CEQA analysis but rely on the lead agencies in making their own significance determinations based upon substantial evidence. The *State CEQA Guidelines* amendments also encourage public agencies to make use of programmatic mitigation plans and programs from which to tier when they perform individual project analyses.

The *State CEQA Guidelines* amendments require a lead agency to make a good-faith effort based on the extent possible on scientific and factual data to describe, calculate, or estimate the amount of GHG emissions resulting from a project. The *State CEQA Guidelines* amendments give discretion to the lead agency whether to: (1) use a model or methodology to quantify GHG emissions resulting

from a project and which model or methodology to use; and/or (2) rely on a qualitative analysis or performance-based standards. The California Natural Resources Agency is required to periodically update the guidelines to incorporate new information or criteria established by the CARB pursuant to AB 32.

California Green Building Standards. The California Green Building Standards Code, which is Part 11 of the California Code of Regulations, is commonly referred to as the CALGreen Code. The first edition of the CALGreen Code was released in 2008 and contained only voluntary standards. The 2022 CALGreen Code was updated in 2022, became effective on January 1, 2023, and applies to non-residential and residential developments. The CALGreen Code contains requirements for construction site selection, stormwater control during construction, construction waste reduction, indoor water use reduction, material selection, natural resource conservation, site irrigation conservation, and more. The CALGreen Code provides for design options that allow the designer to determine how best to achieve compliance for a given site or building condition. The CALGreen Code also requires building commissioning, which is a process for the verification that all building systems (e.g., heating and cooling equipment and lighting systems) function at their maximum efficiency.

Regional Regulations

The SCAG is a council of governments for Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura Counties. The SCAG is a regional planning agency and a forum for regional issues relating to transportation, the economy and community development, and the environment. Although SCAG is not an air quality management agency, it is responsible for developing transportation, land use, and energy conservation measures that affect air quality.

On September 3, 2020, the Regional Council of SCAG adopted Connect SoCal, also known as the *2020–2045 Regional Transportation Plan/Sustainable Communities Strategy: A Plan for Mobility, Accessibility, Sustainability, and High Quality of Life* (a.k.a., 2020–2045 RTP/SCS). The 2020–2045 RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. Connect SoCal embodies a collective vision for the region's future and is developed with input from local governments, County Transportation Commissions (CTCs), tribal governments, non-profit organizations, businesses, and local stakeholders within the Counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura.

In 2008, SCAQMD formed a Working Group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the Basin. The Working Group developed several different options that are contained in the SCAQMD 2008b draft guidance document titled *Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans* (2008b) that could be applied by lead agencies. On September 28, 2010, SCAQMD Working Group Meeting #15 provided further guidance, including a tiered approach for evaluating GHG emissions for development projects where SCAQMD is not the lead agency. The SCAQMD has not presented a finalized version of these thresholds to the governing board.

SCAQMD identifies the emissions level for which a project would not be expected to substantially conflict with any State legislation adopted to reduce statewide GHG emissions. As such, the utilization of a service population represents the rates of emissions needed to achieve a fair share of the State's mandated emissions reductions. Overall, SCAQMD identifies a GHG efficiency level that, when applied statewide or to a defined geographic area, would meet the 2020 and post-2020 emissions targets as required by AB 32 and SB 32. If projects are able to achieve targeted rates of emissions per the service population, the State would be able to accommodate expected population growth and achieve economic development objectives while also abiding by AB 32's emissions target and future post-2020 targets.

Local Regulations

City of Upland General Plan. The City of Upland's General Plan, includes the following GHG policy that is applicable to the proposed project:

> **Greenhouse Gas Reduction in New Development.** Reduce greenhouse gas emissions from new development by promoting water conservation and recycling; promoting development that is compact, mixed use, pedestrian friendly, and transit oriented; promoting energy-efficient building design and site planning; improving the jobs/housing ratio; and other methods of reducing emissions.

San Bernardino County Regional Greenhouse Gas Reduction Plan. As a response to the 2006 AB 32 law, a project partnership led by the San Bernardino Associated Governments (SANBAG), the predecessor agency to the San Bernardino County Transportation Authority (SBCTA), has compiled an inventory of GHG emissions and developed reduction measures that was adopted by the 21 Partnership Cities of San Bernardino County, including the City of Upland. The *Regional Greenhouse Gas Reduction Plan* (SB GHGRP) (SBCOG 2021), which was last updated in March 2021, serves as the basis for cities in San Bernardino County to develop more detailed community-level climate action plans. Together with the SB GHGRP, the County of San Bernardino (County) adopted its *Greenhouse Gas Emissions Development Review Processes* (DRP) (County of San Bernardino 2015) in 2016. The DRP procedures are designed to be followed to evaluate project-level GHG impacts and determine significance for CEQA purposes. All projects in San Bernardino County need to comply with the following GHG performance standards identified in the DRP:

> **GHG – Construction Performance Standards.** The project developer shall submit for review and obtain approval from City Planning of a signed letter agreeing to include as a condition of all construction contracts/subcontracts requirements to reduce GHG emissions and submitting documentation of compliance. The developer/construction contractors shall do the following:
>
> - Implement the approved Coating Restriction Plans.
> - Select construction equipment based on low GHG emissions factors and high-energy efficiency. All diesel/gasoline-powered construction equipment shall be replaced, where possible, with equivalent electric or CNG equipment.
> - Grading contractor shall implement the following when possible:
>   - Training operators to use equipment more efficiently.

  - Identifying the proper size equipment for a task can also provide fuel savings and associated reductions in GHG emissions
  - Replacing older, less fuel-efficient equipment with newer models
  - Use GPS for grading to maximize efficiency

- Grading plans shall include the following statements:
  - "All construction equipment engines shall be properly tuned and maintained in accordance with the manufacturers specifications prior to arriving on site and throughout construction duration."
  - "All construction equipment (including electric generators) shall be shut off by work crews when not in use and shall not idle for more than 5 minutes."

- Schedule construction traffic ingress/egress to not interfere with peak-hour traffic and to minimize traffic obstructions. Queuing of trucks on and off site shall be firmly discouraged and not scheduled. A flagperson shall be retained to maintain efficient traffic flow and safety adjacent to existing roadways.

- Recycle and reuse construction and demolition waste (e.g., soil, vegetation, concrete, lumber, metal, and cardboard) per County Solid Waste procedures.

- The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew and educate all construction workers about the required waste reduction and the availability of recycling services.

GHG – Operational Performance Standards. The developer shall implement the following as greenhouse gas (GHG) mitigation during the operation of the approved project:

- **Waste Stream Reduction.** The "developer" shall provide to all tenants and project employees County-approved informational materials about methods and the need to reduce the solid waste stream and listing available recycling services.

- **Vehicle Trip Reduction.** The "developer" shall provide to all tenants and project employees County-approved informational materials about the need to reduce vehicle trips and the program elements this project is implementing. Such elements may include: participation in established ride-sharing programs, creating a new ride-share employee vanpool, designating preferred parking spaces for ride sharing vehicles, designating adequate passenger loading and unloading for ride sharing vehicles with benches in waiting areas, and/or providing a web site or message board for coordinating rides.

- **Provide Educational Materials.** The "developer" shall provide to all tenants and staff education materials and other publicity about reducing waste and available recycling services. The education and publicity materials/program shall be submitted to County Planning for review and approval. The "developer" shall also provide to all tenants and require that the tenants shall display in their stores current transit route information for the project area in a visible and convenient location for employees and customers.

- **Landscape Equipment.** The "developer" shall require in the landscape maintenance contract and/or in onsite procedures that a minimum of 20% of the landscape maintenance equipment shall be electric-powered.

THRESHOLDS OF SIGNIFICANCE

Certain air districts (e.g., SCAQMD) have created guidelines and requirements to conduct air quality analyses. SCAQMD's current guidelines, the *CEQA Air Quality Handbook* (SCAQMD 1993) with associated updates, were followed in this assessment of air quality and climate impacts for the proposed project.

Based on the *State CEQA Guidelines*, Appendix G (Public Resources Code Sections 15000–15387), a project would normally be considered to have a significant effect on air quality if the project would violate any CAAQS, contribute substantially to an existing air quality violation, expose sensitive receptors to substantial pollutants concentrations, or conflict with adopted environmental plans and goals of the community in which it is located.

Air Quality Thresholds

The SCAQMD has established daily emissions thresholds for construction and operation of a proposed project in the Basin. The emissions thresholds were established based on the attainment status of the Basin with regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety (SCAQMD 2022), these emissions thresholds are regarded as conservative and would overstate an individual project's contribution to health risks.

Regional Emissions Thresholds

Table F lists the CEQA significance thresholds for construction and operational emissions established for the Basin.

Table F: Regional Thresholds for Construction and Operational Emissions

Emissions Source	Pollutant Emissions Thresholds (lbs/day)					
	VOCs	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Construction	75	100	550	150	150	55
Operations	55	55	550	150	150	55

Source: South Coast Air Quality Management District (SCAQMD). 2019. *South Coast AQMD Air Quality Significance Thresholds*. Website: www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf (accessed February 2023).

CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SO_X = sulfur oxides
VOCs = volatile organic compounds

Projects in the Basin with construction- or operation-related emissions that exceed any of their respective emissions thresholds would be considered significant under SCAQMD guidelines. These thresholds, which SCAQMD developed and which apply throughout the Basin, apply as both project and cumulative thresholds. If a project exceeds these standards, it is considered to have a project-specific and cumulative impact.

Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the vicinity of the project site are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the Basin, a project would be considered to have a significant CO impact if project emissions result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 ppm
- California State 8-hour CO standard of 9 ppm

Localized Impacts Analysis

SCAQMD published its *Final Localized Significance Threshold Methodology* in June 2003 and updated it in July 2008 (SCAQMD 2008a), recommending that all air quality analyses include an assessment of both construction and operational impacts on the air quality of nearby sensitive receptors. LSTs represent the maximum emissions from a project site that are not expected to result in an exceedance of the NAAQS or CAAQS for CO, NO_2, PM_{10}, and $PM_{2.5}$, as shown in Table A. Off-site mobile emissions from the project are not included in the emissions compared to the LSTs. LSTs are based on the ambient concentrations of that pollutant within the project's Source Receptor Area (SRA) and the distance to the nearest sensitive receptor. The project site is in the Northwest San Bernardino Valley SRA. Sensitive receptors include residences, schools, hospitals, and similar uses that are sensitive to adverse air quality. As described above, the nearest sensitive receptor in proximity to the project site is a single-family residence located approximately 125 feet (38 meters) to the northeast across Foothill Boulevard. SCAQMD provides LST screening tables for 25-, 50-, 100-, 200-, and 500-meter source-receptor distances. Thus, the 25- and 50-meter values were interpolated to provide 38-meter results.

The LST screening tables provide for 1 ac, 2 ac, and 5 ac construction sites. For the constructions LST, while the proposed project site is 6.05 ac, the construction activities would only take place on portions of the project site on any single day. Approximately 4 ac would be disturbed in any single construction day; therefore, construction LSTs for a 4 ac/38-meter combination were derived by interpolation.

For the operations LST, the areas where onsite emissions occur would include the building furnace exhaust stack, landscaped areas being maintained, and vehicle routes. Approximately 39,469 sf (0.9 ac) of landscaping is planned, and the paved area that vehicles could travel onsite totals approximately 3.65 ac. Thus, the area where onsite emissions could occur would be approximately 4.5 ac, therefore, operations LSTs for a 4.5 ac/38-meter combination were derived by interpolation. Table G shows the emissions thresholds that would apply based on the project size and distance to nearby receptors during project construction and operation, respectively.

Table G: SCAQMD Localized Significance Thresholds

Emissions Source Category	Pollutant Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Construction (4 ac, 125 ft distance)	253	2,257	27	9
Operations (4.5 ac, 125 ft distance)	270	2,429	7	2

Source: South Coast Air Quality Management District (SCAQMD). 2008. *Final Localized Significance Threshold Methodology.* Website: www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf (accessed February 2023).
Note: The local Source Receptor Area is 32 – Northwest San Bernardino Valley.
ac = acre/acres
CO = carbon monoxide
ft = foot/feet
lbs/day = pounds per day
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size

Greenhouse Gas Emissions

State CEQA Guidelines Section 15064(b) provides that the "determination of whether a project may have a significant effect on the environment calls for careful judgment on the part of the public agency involved, based to the extent possible on scientific and factual data," and further states that an "ironclad definition of significant effect is not always possible because the significance of an activity may vary with the setting."

Appendix G of the *State CEQA Guidelines* includes significance thresholds for GHG emissions. A project would normally have a significant effect on the environment if it would do either of the following:

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

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

Currently, there is no Statewide GHG emissions threshold that has been used to determine the potential GHG emissions impacts of a project. Threshold methodology and thresholds are still being developed and revised by air districts in California.

Upland is one of the cities in a consortium that has adopted San Bernardino Council of Government's *Regional Greenhouse Gas Reduction Plan* (SBCOG 2021) in 2021 and the *Greenhouse Gas Emissions Development Review Processes* (DRP) (County of San Bernardino 2015) in 2016. The DRP procedures need to be followed to evaluate GHG impacts and determine significance for CEQA purposes. All projects need to apply the GHG performance standards identified in the DRP and comply with State requirements. For projects exceeding the review standard of 3,000 MT CO_2e per year, the use of screening tables or a project-specific technical analysis to quantify and mitigate project emissions is required. If the GHG emissions from the project are less than 3,000 MT CO_2e per year and the project would apply GHG performance standards and State requirements, project-level and cumulative GHG emissions would be less than significant.

IMPACTS AND MITIGATION MEASURES

Emissions would include criteria air pollutants and GHG emissions. The sections below describe the proposed project's consistency with applicable air quality plans, estimated project emissions, and the significance of impacts with respect to SCAQMD and local thresholds.

Air Quality Impacts

Air pollutant emissions associated with the project would occur over the short term from construction activities and over the long term from project-related vehicular trips and due to energy consumption (e.g., electricity and natural gas usage) by the proposed land uses.

Consistency with Applicable Air Quality Plans

A consistency determination plays an essential role in local agency project review by linking local planning and unique individual projects to the air quality plans. A consistency determination fulfills the CEQA goal of fully informing local agency decision-makers of the environmental costs of the project under consideration at a stage early enough to ensure that air quality concerns are addressed. Only new or amended General Plan elements, Specific Plans, and significantly unique projects need to undergo a consistency review due to the air quality plan strategy being based on projections from local General Plans.

The proposed project would include a 3,570 sf restaurant with drive-through and 94,435 sf of warehouse space. Therefore, the proposed project is not considered a project of Statewide, regional, or area-wide significance (e.g., large-scale projects such as airports, electrical generating facilities, petroleum and gas refineries, residential development of more than 500 dwelling units, shopping centers or business establishments employing more than 1,000 persons or encompassing more than 500,000 sf of floor space) as defined in the California Code of Regulations (Title 14, Division 6, Chapter 3, Article 13, §15206(b)). Because the proposed project would not be defined as a regionally significant project under CEQA, it does not meet the SCAG Intergovernmental Review criteria.

The City's General Plan is consistent with the SCAG Regional Comprehensive Plan Guidelines and the SCAQMD *2022 Air Quality Management Plan*. Pursuant to the methodology provided in the SCAQMD *CEQA Air Quality Handbook*, consistency with the Basin 2022 AQMP is affirmed when a project (1) would not increase the frequency or severity of an air quality standards violation or cause a new violation, and (2) is consistent with the growth assumptions in the AQMP. Consistency review is presented as follows:

1. The project would result in short-term construction and long-term operational pollutant emissions that are all less than the CEQA significance emissions thresholds established by SCAQMD, as demonstrated below. Therefore, the project would not result in an increase in the frequency or severity of an air quality standards violation or cause a new air quality standard violation.

2. The *CEQA Air Quality Handbook* indicates that consistency with AQMP growth assumptions must be analyzed for new or amended General Plan elements, Specific Plans, and significant projects.

Significant projects include airports, electrical generating facilities, petroleum and gas refineries, designation of oil drilling districts, water ports, solid waste disposal sites, and offshore drilling facilities. Therefore, the proposed project is not defined as significant.

Based on the consistency analysis presented above, the proposed project would be consistent with the regional AQMP.

Criteria Pollutant Analysis

The Basin is designated as nonattainment for O_3 and $PM_{2.5}$ for federal standards and nonattainment for O_3, PM_{10}, and $PM_{2.5}$ for State standards. The SCAQMD's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of AAQS. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, SCAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions.

Construction Emissions. Construction activities produce combustion emissions from various sources (e.g., utility engines, tenant improvements, and motor vehicles transporting the construction crew). Exhaust emissions from construction activities envisioned on site would vary daily as construction activity levels change.

The construction analysis includes estimating the construction equipment that would be used during each construction activity, the hours of use for that construction equipment, the quantities of earth and debris to be moved, and the on-road vehicle trips (e.g., worker, soil-hauling, and vendor trips). The proposed earthwork plans for approximately 12,403 cy of soil to be exported and 61,158 cy imported. CalEEMod defaults are assumed for the construction activities, off-road equipment, and on-road construction fleet mix and trip lengths. It is expected that construction of the project would start no earlier than the fourth quarter of 2023. Table H lists the tentative project construction schedule.

Table H: Tentative Project Construction Schedule

Phase Name	Phase Start Date	Phase End Date	Number of Days
Demolition	10/05/2023	11/02/2023	20
Site Preparation	11/03/2023	11/17/2023	10
Grading	11/18/2023	01/15/2024	20
Building Construction	01/16/2024	11/03/2024	230
Architectural Coating	09/04/2024	12/01/2024	64
Paving	11/04/2024	12/01/2024	20

Source: Estimated by LSA Associates, Inc. from the project information provided (May 2023).

The most recent version of CalEEMod (Version 2022.1) was used to develop the construction equipment inventory and calculate the construction emissions. Table I lists the estimated construction equipment that would be used during project construction as estimated by CalEEMod default values. The CalEEMod output is included as Attachment B.

Table I: Diesel Construction Equipment Used by Construction Phase

Construction Phase	Off-Road Equipment Type	Off-Road Equipment Unit Amount	Hours Used per Day	Horsepower	Load Factor
Demolition	Rubber-Tired Dozers	2	8	367	0.40
	Excavators	3	8	36	0.38
	Concrete/Industrial Saws	1	8	33	0.73
Site Preparation	Rubber-Tired Dozers	3	8	367	0.40
	Tractors/Loaders/Backhoes	4	8	84	0.37
Grading	Graders	1	8	148	0.41
	Excavators	1	8	36	0.38
	Tractors/Loaders/Backhoes	3	8	84	0.37
	Rubber-Tired Dozers	1	8	367	0.40
Building Construction	Forklifts	3	8	82	0.20
	Generator Sets	1	8	14	0.74
	Cranes	1	7	367	0.29
	Welders	1	8	46	0.45
	Tractors/Loaders/Backhoes	3	7	84	0.37
Paving	Pavers	2	8	81	0.42
	Paving Equipment	2	8	89	0.36
	Rollers	2	8	36	0.38
Architectural Coating	Air Compressors	1	6	37	0.48

Source: Compiled by LSA Associates, Inc. using CalEEMod defaults (May 2023).
CalEEMod = California Emissions Estimator Model

The emissions rates shown in Table J are from the CalEEMod output tables and are the combination of the on- and off-site emissions and the greater of summer and winter emissions. No exceedances of any criteria pollutants are expected. Standard measures are documented in the CalEEMod output in Attachment B.

As shown in Table J, construction emissions associated with the project would not exceed SCAQMD thresholds for VOC, NO_X, CO, SO_X, $PM_{2.5}$, and PM_{10}. Therefore, construction of the proposed project would not result in a cumulatively considerable increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS.

Table J: Short-Term Regional Construction Emissions

Construction Phase	Total Regional Pollutant Emissions (lbs/day)							
	VOCs	NO_X	CO	SO_X	PM_{10}		$PM_{2.5}$	
					Fugitive	Exhaust	Fugitive	Exhaust
Demolition	3	28	25	<1	<1	1	<1	1
Site Preparation	4	40	37	<1	5	2	3	2
Grading	3	56	40	<1	9	1	3	1
Building Construction	1	13	17	<1	1	1	<1	1
Architectural Coating	8	1	2	<1	<1	<1	<1	<1
Paving	1	8	11	<1	<1	<1	<1	<1
Peak Daily	**9**	**56**	**40**	**<1**	**10**		**5**	
SCAQMD Threshold	**75**	**100**	**550**	**150**	**150**		**55**	
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**		**No**	

Source: Compiled by LSA Associates, Inc. (May 2023).
Note: It was assumed that the architectural coatings were applied during the building construction and paving phases.
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

Odors from Construction Activities. Heavy-duty equipment in the project area during construction would emit odors, primarily from the equipment exhaust. However, the construction-produced odors would cease to occur after individual construction is completed. No other sources of objectionable odors have been identified for the proposed project, and no mitigation measures are required.

SCAQMD Rule 402 regarding nuisances states:

> A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

The proposed uses are not anticipated to emit any objectionable odors. Therefore, the project would not result in other emissions adversely affecting a substantial number of people.

Construction Emissions Conclusions. Table J shows that daily regional construction emissions would not exceed the daily thresholds of any criteria pollutant emissions thresholds established by the SCAQMD; therefore, there would be no significant air quality impacts during construction.

Operational Emissions. Long-term air pollutant emission impacts are those associated with mobile sources (e.g., vehicle trips), energy sources (e.g., electricity and natural gas), and area sources (e.g., architectural coatings and the use of landscape maintenance equipment) related to the proposed project.

The proposed project would generate emissions from daily operations that would include heavy-duty truck trips from warehouse operations. It was assumed there would be standard warehouse

equipment, and to analyze the worst case, it was assumed they would all be diesel-powered. The project would include two warehouses totaling 94,435 sf with 10,000 sf of combined office space/mezzanine, a 3,570 sf restaurant, and a large parking area. The *Scope of Work for the West Foothill Development Project Traffic Impact Analysis* (LSA 2023) determined that the warehouse would generate 120 car, 12 two-axle truck, 10 three-axle truck, and 33 four-plus axle truck trips daily, and the restaurant would generate 793 total vehicle trips daily.[1]

Because the distance that the warehouse haul trucks will travel is unknown, it was conservatively assumed the average trip length would be 40 miles. PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways. Entrainment of PM_{10} occurs when vehicle tires pulverize small rocks and pavement and the vehicle wakes generate airborne dust. The contribution of tire and brake wear is small compared to the other PM emission processes. Gasoline-powered engines have small rates of particulate matter emissions compared with diesel-powered vehicles.

Energy source emissions result from activities in buildings for which electricity and natural gas are used. The quantity of emissions is the product of usage intensity (i.e., the amount of electricity or natural gas) and the emission factor of the fuel source. Major sources of energy demand include building mechanical systems (e.g., heating and air conditioning, lighting) and plug-in electronics (e.g., computers). Greater building or appliance efficiency reduces the amount of energy for a given activity and thus lowers the resultant emissions. The emission factor is determined by the fuel source, with cleaner energy sources (e.g., renewable energy) producing fewer emissions than conventional sources.

Typically, area source emissions consist of direct sources of air emissions located at the project site, including architectural coatings and the use of landscape maintenance equipment. Area source emissions associated with the project would include emissions from the use of landscaping equipment and the use of consumer products.

Emission estimates for operation of the project were calculated using CalEEMod and are shown in Table K. The peak daily emissions associated with project operations are identified in Table K for VOCs, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$.

The results shown in Table K indicate the project would not exceed the significance criteria for daily VOCs, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$ emissions; therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable federal or State AAQS. CalEEMod results listing the details of the emissions results are attached (Attachment B).

[1] The project trip generation estimates are based on two proposed warehouse buildings with a combined 101,092 sf of space, while the latest plans dated February 9, 2023, and submitted to the City indicate the proposed warehouse space totals approximately 94,435 sf. Accordingly, the environmental analysis assumes a greater square footage than proposed and therefore discloses potentially greater environmental effects than would occur under the proposed project.

Table K: Project Operation Emissions (lbs/day)

Source Category	VOCs	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area Source Emissions	2	0	0	0	0	0
Energy Source Emissions	<1	<1	<1	<1	<1	<1
Mobile Source Emissions	4	8	45	<1	4	<1
Warehouse Equipment Emissions	<1	5	9	<1	<1	<1
Total Project Emissions	**7**	**14**	**55**	**<1**	**4**	**1**
SCAQMD Significance Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Exceed Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (May 2023).
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SCAQMD = South Coast Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

Long-Term Microscale (CO Hot Spot) Analysis

Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the project vicinity. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited. Under normal meteorological conditions, CO disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients). Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service (LOS) or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels (EPA 1992).

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate project vicinity are not available. Ambient CO levels monitored at Upland station, the closest station to the project site, showed a highest recorded 1-hour concentration of 1.5 ppm (the State standard is 20 ppm) and a highest 8-hour concentration of 1.1 ppm (the State standard is 9 ppm) during the past 3 years (Table D). The highest CO concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis.

As described in the *Scope of Work for the West Foothill Development Project Traffic Impact Analysis* (LSA 2023), the proposed project would generate 67 a.m. peak-hour trips and 72 p.m. peak-hour trips. Because the proposed project would not generate 100 or more a.m. or p.m. peak-hour trips, the proposed project would not meet the criteria for an evaluation of study area intersection or roadway segment LOS. Therefore, it is concluded that the addition of the proposed project traffic would not create any significant adverse impacts to nearby intersections.

Therefore, given the extremely low level of CO concentrations in the project area and lack of traffic impacts at any intersections, project-related vehicles are not expected to contribute significantly to CO concentrations exceeding the State or federal CO standards.

Health Risk on Nearby Sensitive Receptors

Sensitive receptors are defined as people that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include schools, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential dwelling units. The project site is surrounded primarily by commercial and residential uses. By design, the localized impacts analysis only includes on-site sources; however, the CalEEMod outputs do not separate on-site and off-site emissions for operations. The results of the LST analysis, summarized in Tables L and M indicate that the project would not result in an exceedance of SCAQMD LSTs during project construction or operation.

Table L: Construction Localized Impacts Analysis

Emissions Sources	Pollutant Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
On-Site Emissions	40	36	7	4
Localized Significance Threshold	**253**	**2,257**	**27**	**9**
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (2023).
Note: The SRA is Northwest San Bernardino Valley, 4 ac, receptors at 125 feet.
ac = acre
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SRA = Source Receptor Area

Table M: Operational Localized Impacts Analysis

Emissions Sources	Pollutant Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
On-Site Emissions	6	16	<1	<1
Localized Significance Threshold	**270**	**2,429**	**7**	**2**
Exceeds Threshold?	**No**	**No**	**No**	**No**

Source: Compiled by LSA (2023).
Note: The SRA is Northwest San Bernardino Valley, 4.5 ac, receptors at 125 feet. It was assumed that 5% of vehicle VMT would occur on site.
ac = acre
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SRA = Source Receptor Area
VMT = vehicle miles traveled

Objectionable Odors

Heavy-duty equipment on the project site during construction would emit odors, primarily from equipment exhaust. However, the construction activity would cease after individual construction is completed. The fast-food restaurant may cause cooking odors; however, no other sources of

objectionable odors have been identified for the proposed project, and no mitigation measures are required.

SCAQMD Rule 402 regarding nuisances states: "A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property." The proposed uses are not anticipated to emit any objectionable odors. Therefore, the proposed project would not result in other emissions (e.g., those leading to odors) adversely affecting a substantial number of people.

Greenhouse Gas Emission Impacts

The following sections describe the proposed project's construction- and operation-related GHG impacts and consistency with applicable GHG reduction plans.

Generation of Greenhouse Gas Emissions

This section discusses the project's impacts related to the release of GHG emissions for the construction and operational phases of the project.

Estimation of GHG emissions in the future does not account for all changes in technology that may reduce such emissions; therefore, the estimates are based on past performance and represent a scenario that is worse than that which is likely to be encountered (after energy-efficient technologies have been implemented). While information is presented below to assist the public and decision-makers in understanding the project's potential contribution to climate change impacts, the information available is not sufficiently detailed to allow a direct comparison between particular project characteristics and particular climate change impacts or between any particular proposed mitigation measure and any reduction in climate change impacts.

Construction and operation of the proposed project would generate GHG emissions, with the majority of energy consumption (and associated generation of GHG emissions) occurring during the project's operation.

Overall, the following activities associated with the proposed project could directly or indirectly contribute to the generation of GHG emissions.

Construction Greenhouse Gas Emissions. Construction activities associated with the proposed project would produce combustion emissions from various sources. During construction, GHGs would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically use fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as CO_2, CH_4, and N_2O. Furthermore, CH_4 is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.Neither the City nor the SCAQMD provide a separate GHG significance threshold for construction emissions. Rather, the SCAQMD provides guidance specifying that construction emissions should be amortized over 30 years (considered a typical project lifetime), added to the project operational emissions, and that total compared to the GHG

significance threshold. As shown in Table N, the amortized construction emissions would be approximately 25 MT CO_2e per year (see the CalEEMod output in Attachment B for details).

Table N: Construction Greenhouse Gas Emissions

Construction Phase	Total Emissions per Phase (MT)			Total Emissions per Phase (MT CO_2e)
	CO_2	CH_4	N_2O	
Demolition	34	<1	<1	34
Site Preparation	25	<1	<1	25
Grading	277	<1	<1	289
Building Construction	368	<1	<1	372
Architectural Coating	7	<1	<1	7
Paving	16	<1	<1	16
Total Emissions for the Entire Construction Process				**743**
Total Construction Emissions Amortized over 30 Years				**25**

Source: Compiled by LSA (May 2023).
CH_4 = methane
CO_2 = carbon dioxide
MT = metric tons
MT CO_2e = metric tons of carbon dioxide equivalent
N_2O = nitrous oxide

Operational GHG Emissions. Long-term GHG emissions are typically generated from mobile sources (e.g., cars, trucks, and buses), area sources (e.g., maintenance activities and landscaping), indirect emissions from sources associated with energy consumption, waste sources (land filling and waste disposal), and water sources (water supply and conveyance, treatment, and distribution). Mobile-source GHG emissions would include project-generated car and truck trips to and from the project site. Area-source emissions would be associated with activities such as landscaping and maintenance on the project site. Waste source emissions generated by the proposed project include energy generated by landfilling and other methods of disposal related to transporting and managing project-generated waste.

GHG emissions were estimated using CalEEMod. Table O shows the calculated GHG emissions for the proposed project. As shown in Table O, the project would generate 2,802 MT CO_2e per year. This is less than San Bernardino County's Review threshold of 3,000 MT CO_2e per year. Therefore, operation of the proposed project would not generate significant GHG emissions that would have a significant effect on the environment.

Table O: Long-Term Operational Greenhouse Gas Emissions

Source	Pollutant Emissions per Year (MT)					
	Bio-CO_2	Nbio-CO_2	Total CO_2	CH_4	N_2O	CO_2e
Construction Emissions Amortized over 30 Years						25
Operational Emissions						
Area	0	0	0	0	0	0
Energy	0	300	300	<1	<1	301
Mobile	0	2,167	2,167	<1	<1	2,220
Offroad	0	164	164	<1	<1	164
Waste	12	0	12	1	<1	43
Water	8	40	48	<1	<1	74
Total Project Emissions	**20**	**2,671**	**2,691**	2	<1	**2,802**
San Bernardino County Review Threshold						**3,000**
Emissions Exceed Threshold?						**No**

Source: Compiled by LSA (May 2023).
Bio-CO_2 = biologically generated carbon dioxide
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
MT = metric tons
N_2O = nitrous oxide
Nbio-CO_2 = non-biologically generated carbon dioxide

Consistency with Greenhouse Gas Reduction Plans

Because the project would apply the San Bernardino County's *Greenhouse Gas Emissions Development Review Processes* performance standards (County of San Bernardino 2015) and adhere to State requirements, project-level and cumulative GHG emissions would be less than significant.

Consistency with the Scoping Plan

The following discussion evaluates the proposed project according to the goals of the 2022 Scoping Plan, EO B-30-15, SB 32, and AB 197.

EO B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released a second update to the Scoping Plan (the 2017 Scoping Plan [CARB 2017a]), to reflect the 2030 target set by EO B-30-15 and codified by SB 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in EO B-30-15. SB 32 builds on AB 32 and keeps us on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32 (i.e., AB 197) provides additional direction to the CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 intended to provide easier public access to air emissions data that are collected by the CARB was posted in December 2016.

In addition, the 2022 Scoping Plan assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

The 2022 Scoping Plan focuses on building clean energy production and distribution infrastructure for a carbon-neutral future, including transitioning existing energy production and transmission infrastructure to produce zero-carbon electricity and hydrogen, and utilizing biogas resulting from wildfire management or landfill and dairy operations, among other substitutes. The 2022 Scoping Plan states that in almost all sectors, electrification will play an important role. The 2022 Scoping Plan evaluates clean energy and technology options and the transition away from fossil fuels, including adding four times the solar and wind capacity by 2045 and about 1,700 times the amount of current hydrogen supply. As discussed in the 2022 Scoping Plan, EO N-79-20 requires that all new passenger vehicles sold in California will be zero-emission by 2035, and all other fleets will have transitioned to zero-emission as fully possible by 2045, which will reduce the percentage of fossil fuel combustion vehicles.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts (including new technologies and new policy and implementation mechanisms), and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. As discussed above, the proposed project would comply with the CALGreen Code regarding energy conservation and green building standards. Therefore, the proposed project would comply with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. As noted above, the project would comply with the CALGreen Code, which includes a variety of different measures, including reduction of wastewater and water use. In addition, the proposed project would be required to comply with the California Model Water Efficient Landscape Ordinance. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. The second phase of the Pavley standards will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Vehicles traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program (CARB 2012). Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

CONCLUSION

Based on the analysis presented above, neither construction nor operational emissions associated with the proposed project would exceed established SCAQMD significance thresholds. The proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The proposed project would also not result in objectionable odors affecting a substantial number of people. GHG emissions released during construction and operation of the project are estimated to be lower than significance thresholds and would not be cumulatively considerable.

Additionally, the project would not conflict with the goals and objectives of a State or regional plan, or policy or regulation of an agency adopted for the purpose of reducing GHG emissions.

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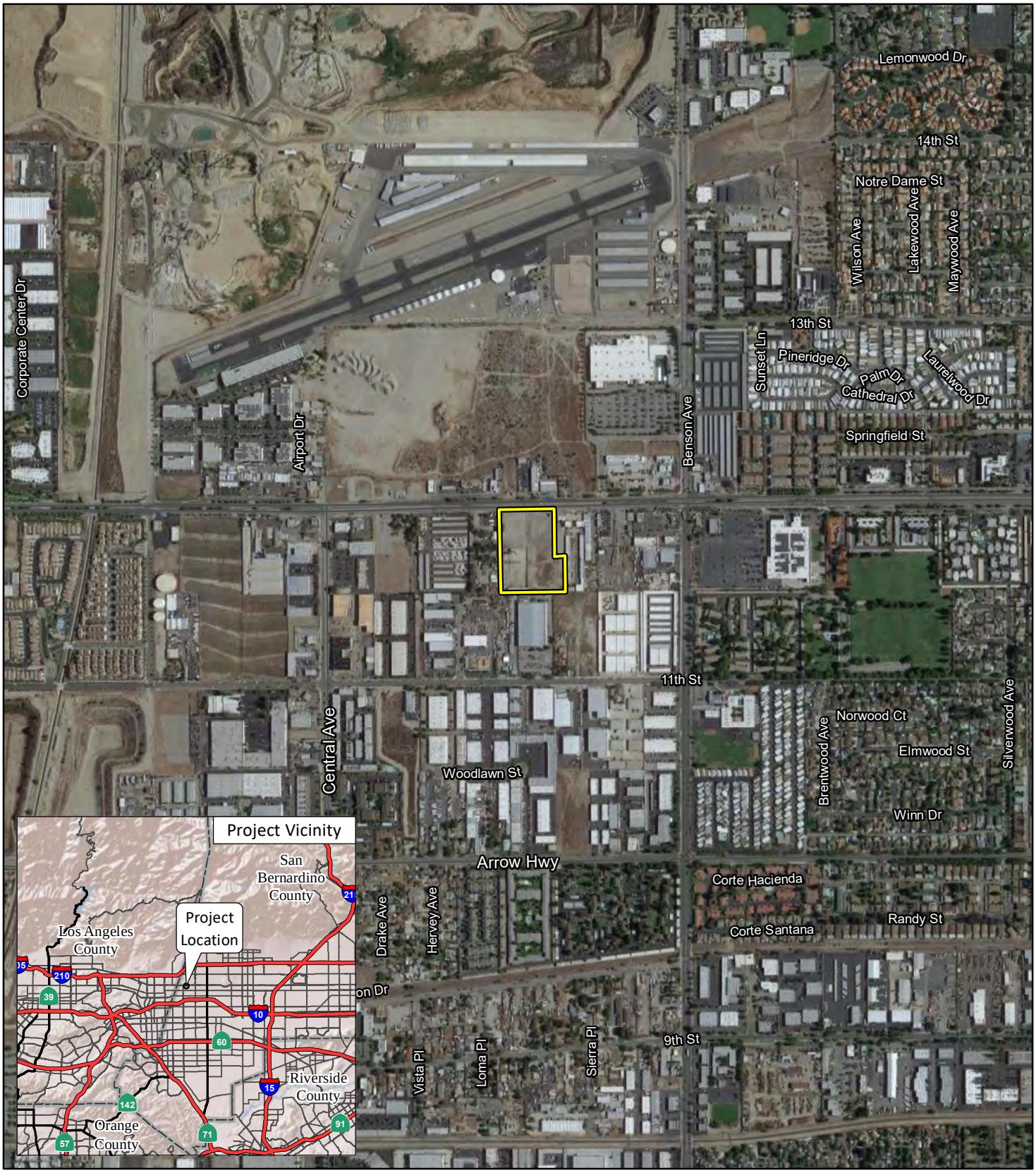
Attachments: A – Figures
B – CalEEMod Output

ATTACHMENT A

FIGURES



LSA

LEGEND

Project Location

FIGURE 1

N

0 500 1000

FEET

SOURCE: USGS 7.5' Quad - *Ontario*(1981), *Mt. Baldy*(1988), CA

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West Foothill Development Project
City of Upland

Project Location and Vicinity

LSA

LEGEND

Project Site

FIGURE 2

N

0 115 230

FEET

SOURCE: Google (2021)

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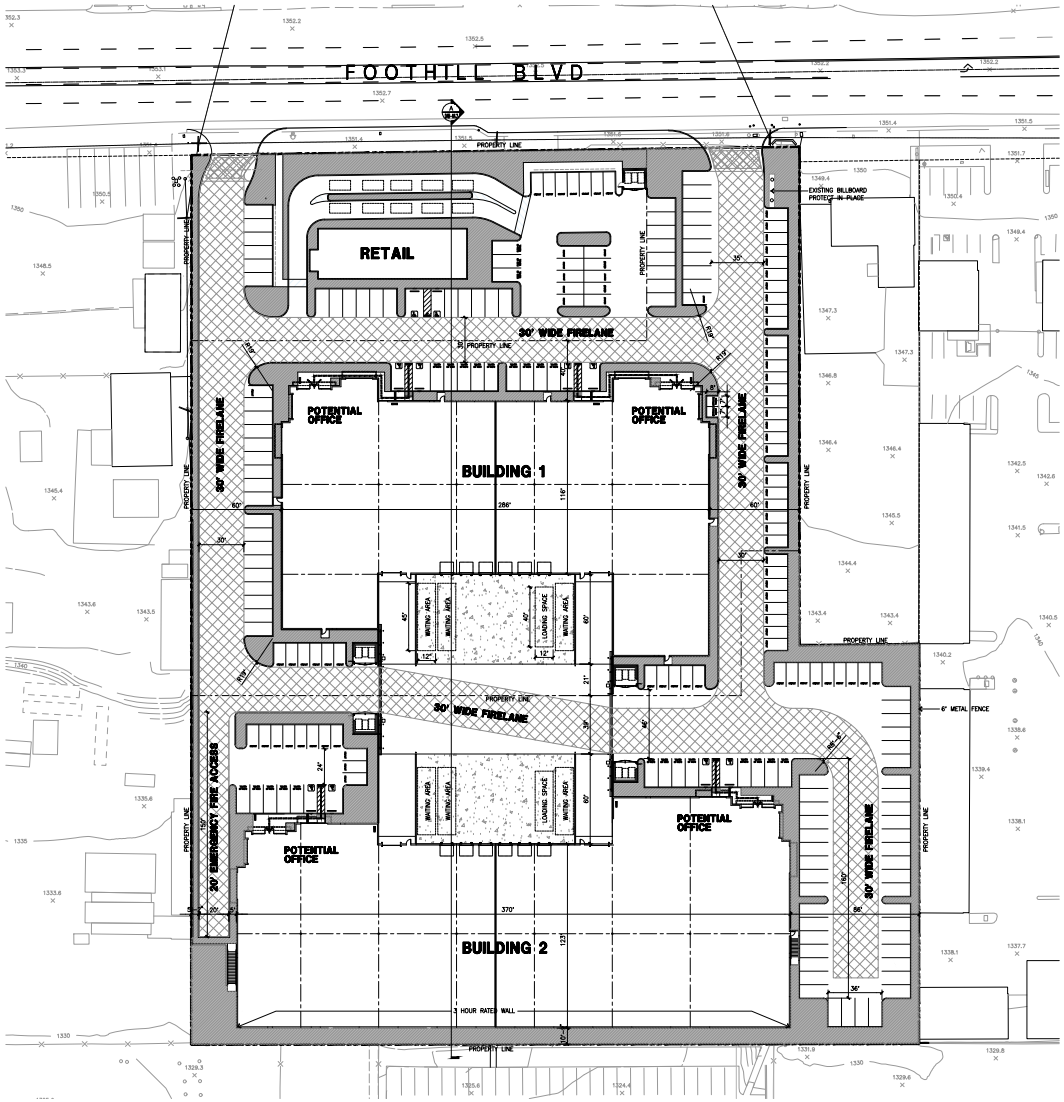
West Foothill Development Project
City of Upland

Project Site and Adjacent Land Uses



LSA

FIGURE 2

N

0 75 150

FEET

SOURCE: HPA Architecture

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West Foothill Development Project

Site Plan

ATTACHMENT B

CALEEMOD OUTPUT

West Foothill Development Project (MVP2201) Custom Report

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3.1. Demolition (2023) - Unmitigated

3.3. Site Preparation (2023) - Unmitigated

3.5. Grading (2023) - Unmitigated

3.7. Building Construction (2023) - Unmitigated

3.9. Building Construction (2024) - Unmitigated

3.11. Paving (2024) - Unmitigated

3.13. Architectural Coating (2024) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.2. Unmitigated

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	West Foothill Development Project (MVP2201)
Construction Start Date	10/5/2023
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	2.40
Location	34.10650487987008, -117.68389703080412
County	San Bernardino-South Coast
City	Upland
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5227
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.12

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	101	1000sqft	2.32	101,092	200	0.00	—	—
Parking Lot	3.65	Acre	3.65	0.00	200	0.00	—	—
Fast Food Restaurant with Drive Thru	3.57	1000sqft	0.08	3,570	400	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.96	9.61	13.0	19.1	0.03	0.54	0.84	1.37	0.49	0.20	0.70	—	3,828	3,828	0.18	0.13	4.54	3,875
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.23	9.60	55.9	40.0	0.20	1.81	9.18	10.5	1.66	2.89	4.34	—	30,485	30,485	3.28	4.36	1.50	31,869
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.13	2.36	7.81	10.7	0.02	0.33	0.69	0.90	0.30	0.24	0.43	—	2,234	2,234	0.20	0.25	1.47	2,260
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.21	0.43	1.43	1.95	< 0.005	0.06	0.13	0.16	0.06	0.04	0.08	—	370	370	0.03	0.04	0.24	374

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.96	9.61	13.0	19.1	0.03	0.54	0.84	1.37	0.49	0.20	0.70	—	3,828	3,828	0.18	0.13	4.54	3,875
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	6.23	4.04	55.9	40.0	0.20	1.81	9.18	10.5	1.66	2.89	4.34	—	30,485	30,485	3.28	4.36	1.50	31,869
2024	1.95	9.60	13.1	18.0	0.03	0.54	0.84	1.37	0.49	0.20	0.70	—	3,765	3,765	0.18	0.13	0.12	3,808
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.73	0.47	6.14	5.14	0.02	0.21	0.69	0.90	0.19	0.24	0.43	—	2,151	2,151	0.20	0.25	1.47	2,231
2024	1.13	2.36	7.81	10.7	0.02	0.33	0.46	0.79	0.30	0.11	0.41	—	2,234	2,234	0.10	0.07	1.09	2,260
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.13	0.09	1.12	0.94	< 0.005	0.04	0.13	0.16	0.03	0.04	0.08	—	356	356	0.03	0.04	0.24	369
2024	0.21	0.43	1.43	1.95	< 0.005	0.06	0.08	0.14	0.06	0.02	0.08	—	370	370	0.02	0.01	0.18	374

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.39	6.91	13.8	54.5	0.15	0.36	3.96	4.32	0.34	0.73	1.07	120	17,119	17,239	13.0	1.05	57.6	17,937
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	5.10	6.62	14.3	46.5	0.14	0.36	3.96	4.32	0.34	0.73	1.07	120	16,422	16,542	13.1	1.07	6.93	17,194
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.91	6.46	12.9	45.4	0.14	0.30	3.96	4.27	0.29	0.73	1.02	120	16,131	16,251	13.0	1.07	28.1	16,924
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.90	1.18	2.36	8.28	0.03	0.06	0.72	0.78	0.05	0.13	0.19	19.9	2,671	2,691	2.16	0.18	4.64	2,802

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.75	4.01	7.96	45.0	0.13	0.12	3.96	4.08	0.11	0.73	0.84	—	13,676	13,676	0.70	0.92	52.0	14,019
Area	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.07	0.03	0.63	0.53	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,813	1,813	0.13	0.01	—	1,819
Water	—	—	—	—	—	—	—	—	—	—	—	46.9	243	290	4.82	0.12	—	445
Waste	—	—	—	—	—	—	—	—	—	—	—	73.4	0.00	73.4	7.33	0.00	—	257
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.58	5.58
Off-Road	0.57	0.48	5.21	8.99	0.01	0.19	—	0.19	0.18	—	0.18	—	1,387	1,387	0.06	0.01	—	1,392
Total	5.39	6.91	13.8	54.5	0.15	0.36	3.96	4.32	0.34	0.73	1.07	120	17,119	17,239	13.0	1.05	57.6	17,937
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.46	3.72	8.46	37.0	0.12	0.12	3.96	4.08	0.11	0.73	0.84	—	12,979	12,979	0.72	0.93	1.35	13,276
Area	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.07	0.03	0.63	0.53	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,813	1,813	0.13	0.01	—	1,819
Water	—	—	—	—	—	—	—	—	—	—	—	46.9	243	290	4.82	0.12	—	445

Waste	—	—	—	—	—	—	—	—	—	—	—	73.4	0.00	73.4	7.33	0.00	—	257
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.58	5.58
Off-Road	0.57	0.48	5.21	8.99	0.01	0.19	—	0.19	0.18	—	0.18	—	1,387	1,387	0.06	0.01	—	1,392
Total	5.10	6.62	14.3	46.5	0.14	0.36	3.96	4.32	0.34	0.73	1.07	120	16,422	16,542	13.1	1.07	6.93	17,194
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.44	3.70	8.59	38.4	0.13	0.12	3.96	4.08	0.11	0.73	0.84	—	13,087	13,087	0.72	0.94	22.5	13,407
Area	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.07	0.03	0.63	0.53	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,813	1,813	0.13	0.01	—	1,819
Water	—	—	—	—	—	—	—	—	—	—	—	46.9	243	290	4.82	0.12	—	445
Waste	—	—	—	—	—	—	—	—	—	—	—	73.4	0.00	73.4	7.33	0.00	—	257
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.58	5.58
Off-Road	0.40	0.34	3.71	6.40	0.01	0.14	—	0.14	0.13	—	0.13	—	988	988	0.04	0.01	—	992
Total	4.91	6.46	12.9	45.4	0.14	0.30	3.96	4.27	0.29	0.73	1.02	120	16,131	16,251	13.0	1.07	28.1	16,924
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.81	0.68	1.57	7.01	0.02	0.02	0.72	0.74	0.02	0.13	0.15	—	2,167	2,167	0.12	0.16	3.72	2,220
Area	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.01	0.11	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	300	300	0.02	< 0.005	—	301
Water	—	—	—	—	—	—	—	—	—	—	—	7.76	40.2	48.0	0.80	0.02	—	73.6
Waste	—	—	—	—	—	—	—	—	—	—	—	12.1	0.00	12.1	1.21	0.00	—	42.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.92	0.92
Off-Road	0.07	0.06	0.68	1.17	< 0.005	0.03	—	0.03	0.02	—	0.02	—	164	164	0.01	< 0.005	—	164
Total	0.90	1.18	2.36	8.28	0.03	0.06	0.72	0.78	0.05	0.13	0.19	19.9	2,671	2,691	2.16	0.18	4.64	2,802

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.39	2.84	27.3	23.5	0.03	1.20	—	1.20	1.10	—	1.10	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.50	1.29	< 0.005	0.07	—	0.07	0.06	—	0.06	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.27	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	202	202	0.01	0.01	0.02	204
Vendor	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	0.00
Hauling	0.01	< 0.005	0.12	0.07	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	92.9	92.9	0.01	0.01	0.01	97.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.02	11.4
Vendor	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	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.09	5.09	< 0.005	< 0.005	< 0.005	5.35
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.86	1.86	< 0.005	< 0.005	< 0.005	1.88
Vendor	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	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.84	0.84	< 0.005	< 0.005	< 0.005	0.89

3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.70	3.95	39.7	35.5	0.05	1.81	—	1.81	1.66	—	1.66	—	5,295	5,295	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.09	0.97	< 0.005	0.05	—	0.05	0.05	—	0.05	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.20	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.11	1.22	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	236	236	0.01	0.01	0.03	238
Vendor	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	0.00
Hauling	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.55	6.55	< 0.005	< 0.005	0.01	6.64
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.10
Vendor	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	0.00
Hauling	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	0.00

3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.43	2.04	20.0	19.7	0.03	0.94	—	0.94	0.87	—	0.87	—	2,958	2,958	0.12	0.02	—	2,968
Dust From Material Movement	—	—	—	—	—	—	1.90	1.90	—	0.90	0.90	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.09	1.08	< 0.005	0.05	—	0.05	0.05	—	0.05	—	162	162	0.01	< 0.005	—	163

Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.20	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.8	26.8	< 0.005	< 0.005	—	26.9
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	202	202	0.01	0.01	0.02	204
Vendor	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	0.00
Hauling	3.72	0.54	35.9	19.3	0.18	0.34	7.09	7.42	0.34	1.94	2.28	—	27,326	27,326	3.15	4.33	1.47	28,697
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.2	11.2	< 0.005	< 0.005	0.02	11.4
Vendor	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	0.00
Hauling	0.20	0.03	1.99	1.05	0.01	0.02	0.39	0.41	0.02	0.11	0.12	—	1,497	1,497	0.17	0.24	1.35	1,573
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.86	1.86	< 0.005	< 0.005	< 0.005	1.88
Vendor	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	0.00

Hauling	0.04	0.01	0.36	0.19	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	248	248	0.03	0.04	0.22	260

3.7. Building Construction (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.50	1.26	11.8	13.2	0.02	0.55	—	0.55	0.51	—	0.51	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.42	0.46	< 0.005	0.02	—	0.02	0.02	—	0.02	—	84.4	84.4	< 0.005	< 0.005	—	84.7
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.0	14.0	< 0.005	< 0.005	—	14.0
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.23	0.27	3.06	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	592	592	0.03	0.02	0.07	599
Vendor	0.06	0.01	0.67	0.35	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	544	544	0.05	0.08	0.04	569
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	21.1	21.1	< 0.005	< 0.005	0.04	21.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.2	19.2	< 0.005	< 0.005	0.02	20.1
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.50	3.50	< 0.005	< 0.005	0.01	3.55
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.17	3.17	< 0.005	< 0.005	< 0.005	3.32
Hauling	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	0.00

3.9. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.72	6.67	7.80	0.01	0.30	—	0.30	0.27	—	0.27	—	1,426	1,426	0.06	0.01	—	1,431
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.42	< 0.005	0.05	—	0.05	0.05	—	0.05	—	236	236	0.01	< 0.005	—	237
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.23	0.21	3.72	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	633	633	0.03	0.02	2.53	643
Vendor	0.06	0.02	0.62	0.33	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	538	538	0.04	0.08	1.50	564
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.25	2.81	0.00	0.00	0.57	0.57	0.00	0.13	0.13	—	580	580	0.03	0.02	0.07	587
Vendor	0.06	0.01	0.64	0.34	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	538	538	0.04	0.08	0.04	563
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.15	1.76	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	350	350	0.02	0.01	0.65	355
Vendor	0.03	0.01	0.38	0.20	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	320	320	0.02	0.05	0.38	335

Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.03	0.32	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	57.9	57.9	< 0.005	< 0.005	0.11	58.8
Vendor	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	53.0	53.0	< 0.005	0.01	0.06	55.5
Hauling	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	0.00

3.11. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.81	10.0	0.01	0.39	—	0.39	0.36	—	0.36	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	0.48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.43	0.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8

Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	0.96	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	198	198	0.01	0.01	0.02	200
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.02	11.2
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.82	1.82	< 0.005	< 0.005	< 0.005	1.85
Vendor	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	0.00
Hauling	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	0.00

3.13. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	7.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	0.91	1.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	7.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.16	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	23.4	23.4	< 0.005	< 0.005	—	23.5
Architectural Coatings	—	1.40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.88	3.88	< 0.005	< 0.005	—	3.89
Architectural Coatings	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.74	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	127	127	0.01	< 0.005	0.51	129
Vendor	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	0.00
Hauling	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.56	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	116	116	0.01	< 0.005	0.01	117
Vendor	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	0.00
Hauling	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.6	20.6	< 0.005	< 0.005	0.04	20.9
Vendor	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	0.00
Hauling	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.42	3.42	< 0.005	< 0.005	0.01	3.46
Vendor	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	0.00
Hauling	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	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.80	0.46	4.21	9.49	0.05	0.06	1.22	1.28	0.06	0.24	0.30	—	5,135	5,135	0.32	0.54	17.9	5,321
Parking Lot	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	0.00
Fast Food Restaurant with Drive Thru	3.95	3.55	3.75	35.5	0.08	0.06	2.74	2.80	0.05	0.49	0.54	—	8,541	8,541	0.38	0.38	34.1	8,698
Total	4.75	4.01	7.96	45.0	0.13	0.12	3.96	4.08	0.11	0.73	0.84	—	13,676	13,676	0.70	0.92	52.0	14,019
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.77	0.44	4.42	7.66	0.05	0.06	1.22	1.28	0.06	0.24	0.30	—	4,980	4,980	0.32	0.54	0.46	5,149
Parking Lot	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	0.00
Fast Food Restaurant with Drive Thru	3.69	3.29	4.03	29.3	0.08	0.06	2.74	2.80	0.05	0.49	0.54	—	7,999	7,999	0.40	0.39	0.88	8,127
Total	4.46	3.72	8.46	37.0	0.12	0.12	3.96	4.08	0.11	0.73	0.84	—	12,979	12,979	0.72	0.93	1.35	13,276
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	0.14	0.08	0.82	1.45	0.01	0.01	0.22	0.23	0.01	0.04	0.05	—	828	828	0.05	0.09	1.28	858
Parking Lot	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	0.00
Fast Food Restaurant with Drive Thru	0.67	0.60	0.75	5.56	0.01	0.01	0.50	0.51	0.01	0.09	0.10	—	1,338	1,338	0.07	0.07	2.44	1,362
Total	0.81	0.68	1.57	7.01	0.02	0.02	0.72	0.74	0.02	0.13	0.15	—	2,167	2,167	0.12	0.16	3.72	2,220

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	681	681	0.04	0.01	—	683
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	203	203	0.01	< 0.005	—	204
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	182	182	0.01	< 0.005	—	183

Total	—	—	—	—	—	—	—	—	—	—	—	—	1,066	1,066	0.07	0.01	—	1,070
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	681	681	0.04	0.01	—	683
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	203	203	0.01	< 0.005	—	204
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	182	182	0.01	< 0.005	—	183
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,066	1,066	0.07	0.01	—	1,070
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	113	113	0.01	< 0.005	—	113
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	33.6	33.6	< 0.005	< 0.005	—	33.7
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	30.2	30.2	< 0.005	< 0.005	—	30.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	176	176	0.01	< 0.005	—	177

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	—	616	616	0.05	< 0.005	—	618
Parking Lot	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
Fast Food Restaurant with Drive Thru	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	131	131	0.01	< 0.005	—	131
Total	0.07	0.03	0.63	0.53	< 0.005	0.05	—	0.05	0.05	—	0.05	—	747	747	0.07	< 0.005	—	749
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	—	616	616	0.05	< 0.005	—	618
Parking Lot	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
Fast Food Restaurant with Drive Thru	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	131	131	0.01	< 0.005	—	131
Total	0.07	0.03	0.63	0.53	< 0.005	0.05	—	0.05	0.05	—	0.05	—	747	747	0.07	< 0.005	—	749
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	102	102	0.01	< 0.005	—	102
Parking Lot	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
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.6	21.6	< 0.005	< 0.005	—	21.7
Total	0.01	0.01	0.11	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	124	124	0.01	< 0.005	—	124

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	2.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	2.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.44	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	44.8	232	277	4.61	0.11	—	425
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.02	0.02	< 0.005	< 0.005	—	0.02
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.08	10.8	12.9	0.21	0.01	—	19.7

Total	—	—	—	—	—	—	—	—	—	—	—	46.9	243	290	4.82	0.12	—	445
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	44.8	232	277	4.61	0.11	—	425
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.02	0.02	< 0.005	< 0.005	—	0.02
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.08	10.8	12.9	0.21	0.01	—	19.7
Total	—	—	—	—	—	—	—	—	—	—	—	46.9	243	290	4.82	0.12	—	445
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	7.42	38.4	45.8	0.76	0.02	—	70.4
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.34	1.79	2.13	0.04	< 0.005	—	3.27
Total	—	—	—	—	—	—	—	—	—	—	—	7.76	40.2	48.0	0.80	0.02	—	73.6

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.2	0.00	51.2	5.12	0.00	—	179
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.5
Total	—	—	—	—	—	—	—	—	—	—	—	73.4	0.00	73.4	7.33	0.00	—	257
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.2	0.00	51.2	5.12	0.00	—	179
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.5
Total	—	—	—	—	—	—	—	—	—	—	—	73.4	0.00	73.4	7.33	0.00	—	257
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	8.48	0.00	8.48	0.85	0.00	—	29.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	3.67	0.00	3.67	0.37	0.00	—	12.8
Total	—	—	—	—	—	—	—	—	—	—	—	12.1	0.00	12.1	1.21	0.00	—	42.5

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.58	5.58
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.58	5.58
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.58	5.58

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.58	5.58
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.92	0.92
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.92	0.92

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Material Handling Equipment	0.57	0.48	5.21	8.99	0.01	0.19	—	0.19	0.18	—	0.18	—	1,387	1,387	0.06	0.01	—	1,392
Total	0.57	0.48	5.21	8.99	0.01	0.19	—	0.19	0.18	—	0.18	—	1,387	1,387	0.06	0.01	—	1,392
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Material Handling Equipment	0.57	0.48	5.21	8.99	0.01	0.19	—	0.19	0.18	—	0.18	—	1,387	1,387	0.06	0.01	—	1,392
Total	0.57	0.48	5.21	8.99	0.01	0.19	—	0.19	0.18	—	0.18	—	1,387	1,387	0.06	0.01	—	1,392
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Other Material Handling Equipment	0.07	0.06	0.68	1.17	< 0.005	0.03	—	0.03	0.02	—	0.02	—	164	164	0.01	< 0.005	—	164
Total	0.07	0.06	0.68	1.17	< 0.005	0.03	—	0.03	0.02	—	0.02	—	164	164	0.01	< 0.005	—	164

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	10/5/2023	11/1/2023	5.00	20.0	—
Site Preparation	Site Preparation	11/2/2023	11/15/2023	5.00	10.0	—
Grading	Grading	11/16/2023	12/13/2023	5.00	20.0	—
Building Construction	Building Construction	12/14/2023	10/30/2024	5.00	230	—
Paving	Paving	10/31/2024	11/27/2024	5.00	20.0	—
Architectural Coating	Architectural Coating	8/15/2024	11/12/2024	5.00	64.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41

Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	1.30	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT

Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	382	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	44.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	17.2	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	8.79	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%

Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	158,208	52,736	9,487

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,200	—
Site Preparation	0.00	0.00	15.0	0.00	—
Grading	61,158	12,403	20.0	0.00	—
Paving	0.00	0.00	0.00	0.00	3.65

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Parking Lot	3.65	100%

Fast Food Restaurant with Drive Thru	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	173	173	173	63,097	3,747	3,747	3,747	1,367,792
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fast Food Restaurant with Drive Thru	793	793	793	289,277	9,831	9,831	9,831	3,588,165

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	158,208	52,736	9,487

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	466,914	532	0.0330	0.0040	1,921,828
Parking Lot	139,279	532	0.0330	0.0040	0.00
Fast Food Restaurant with Drive Thru	125,188	532	0.0330	0.0040	407,947

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	23,377,525	3,212
Parking Lot	0.00	3,212
Fast Food Restaurant with Drive Thru	1,083,615	6,424

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	95.0	—
Parking Lot	0.00	—
Fast Food Restaurant with Drive Thru	41.1	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Assume architectural coatings applied during building construction and paving operations.
Construction: Architectural Coatings	Assume architectural coatings comply with SCAQMD Rule 1113.
Operations: Architectural Coatings	Assume architectural coatings comply with SCAQMD Rule 1113.
Operations: Vehicle Data	Trip rates from project traffic study. Used peak daily trip rate for all days. Assumed warehouse haul trucks would average 40 mile trip length.
Operations: Fleet Mix	Warehouse fleet mix from the project traffic study.
Operations: Off-Road Equipment	Assume 4 material handling equipment operating in the warehouse.
Operations: Refrigerants	Warehouse will not include any cold storage.

BIOLOGICAL RESOURCES ASSESSMENT

WEST FOOTHILL DEVELOPMENT PROJECT

UPLAND, SAN BERNARDINO COUNTY, CALIFORNIA

(APN 1007-091-01,02,03)

LSA

July 2023

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WEST FOOTHILL DEVELOPMENT PROJECT

UPLAND, SAN BERNARDINO COUNTY, CALIFORNIA

(APN 1007-091-01,02,03)

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July 2023

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LIST OF ABBREVIATIONS AND ACRONYMS

amsl	above mean sea level
APN	Assessor's Parcel Number
BRA	Biological Resources Assessment
BSA	biological study area
CDFW	California Department of Fish and Wildlife
CESA	California Endangered Species Act
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CWA	Clean Water Act
ft	foot/feet
IPaC	Information for Planning and Conservation
project	1780 West Foothill Boulevard Warehouse Project
RWQCB	Regional Water Quality Control Board
USACE	United States Army Corps of Engineers
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey

INTRODUCTION

Magellan Value Partners retained LSA to conduct a Biological Resources Assessment (BRA) for the West Foothill Development Project (project) on Assessor's Parcel Numbers (APN) 1007-091-01, -02, and -03 in Upland, San Bernardino County, California (Figure 1; all figures are provided in Appendix A). The proposed project would result in the construction of one retail building and two warehouse buildings, 213 parking stalls, and landscaping (Figure 2).

SITE DESCRIPTION

The 6.05-acre project site is bounded by Foothill Boulevard and Upland Sports Arena to the north and south, respectively, in Upland, California as depicted on the United States Geological Survey (USGS) *Ontario, California* 7.5-minute series topographic quadrangle (USGS 1967). Industrial uses are west of the site, while the Goodwill Industries store and light industrial uses are to the east. The property is zoned Commercial/Industrial Mixed-use (C/I-MU.) The project anticipates the demolition of existing on-site structures (built in 1982) and construction of a 3,570-square-foot retail building, a 42,476-square-foot warehouse building, and a 51,959-square-foot warehouse building, totaling 98,005 square feet of building area. The site would provide a total of 213 parking stalls and landscaping on 15 percent (39,469 square feet) of the site.

Due to previous industrial uses, the site topography is flat throughout, with site elevations ranging from 1,318 to 1,349 feet (ft) above mean sea level (amsl).

METHODS

LITERATURE REVIEW

LSA Biologist Heather Monteleone conducted a literature review and record search in August 2022 to identify the existence and potential for occurrence of sensitive or special-status plant and animal species in the project vicinity. Federal and State lists of sensitive species were also examined. Current electronic database records reviewed included the following.

- **California Natural Diversity Database information (CNDDB – RareFind 5)** (California Department of Fish and Wildlife [CDFW] 2022a), which is administered by the CDFW, formerly known as the California Department of Fish and Game. This database covers sensitive plant and animal species, as well as sensitive natural communities that occur in California. Records from the *Ontario*, *California* USGS quadrangle were obtained from this database to inform the field survey.

- **California Native Plant Society's (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants** (2022), which uses four specific categories or "lists" of sensitive plant species to assist with the conservation of rare or endangered botanical resources. All of the plants constituting California Rare Plant Ranks 1A, 1B, 2A, and 2B are intended to meet the status definitions of "threatened" or "endangered" in the California Endangered Species Act (CESA) and the California Fish and Game Code and are considered by CNPS to be eligible for State listing. At the discretion of the California Environmental Quality Act (CEQA) Lead Agency, impacts to these species may be analyzed as such, pursuant to *State CEQA Guidelines* Sections 15125(c) and 15380. Plants in Rank 3 (limited information; review list), Rank 4 (limited distribution; watch list), or that are considered Locally Unusual and Significant may be analyzed under CEQA if there is sufficient information to assess potential significant impacts. Records from the *Ontario*, *California* USGS quadrangle were obtained from this database to inform the field survey.

- **United States Fish and Wildlife Service's (USFWS) Information for Planning and Conservation (IPaC) Online System**, which lists all proposed, candidate, threatened, and endangered species managed by the Endangered Species Program of the USFWS that have the potential to occur on or near a particular site. This database also lists all known critical habitats, national wildlife refuges, and migratory birds that could potentially be impacted by activities from a proposed project. An IPaC Resource Report was generated for the project area.

In addition to the databases listed above, historic and current aerial imagery, existing environmental reports for developments in the project vicinity, and regional habitat conservation plans and local land use policies related to biological resources were reviewed. Wetland resources including riparian corridors were determined using the USFWS Wetlands Mapper online edition (USFWS 2021). Soil types were determined using the United States Department of Agriculture Natural Resources Conservation Service WebSoil Survey (United States Department of Agriculture [USDA] 2021).

RECONNAISSANCE FIELD SURVEY

LSA Biologist Heather Monteleone conducted a general reconnaissance-level, pedestrian field survey on August 26, 2022. All areas within the 6.16-acre project parcel and 500 ft biological study area (BSA) buffer were surveyed on foot. She used binoculars to survey certain portions of the buffer area that were restricted due to the presence of fences.

Ms. Monteleone recorded observations on all plant and animal species, general site conditions, vegetation, land cover, and suitability of habitat for various special-status elements.

RESULTS

EXISTING SITE CONDITIONS

The site is entirely disturbed due to pre-existing land uses and surrounding development. The project site is in an area of primarily commercial and industrial development.

The site is bordered by partially developed and graded land to the north, across Foothill Boulevard, and commercial development to the east, west, and south. The southwestern portion of the project site has vestiges of previous developments with multiple abandoned industrial buildings, large concrete slabs, and compacted soils. Ornamental trees line the western border of the project site. Two native coast live oaks (*Quercus agrifolia*) are present on the project site in the northwestern corner and will be removed pursuant to the proposed development plans. These two oaks are isolated and do not constitute an oak woodland. No other trees will be removed. Ruderal/barren areas are present in the north, center, and southern portion of the project site. The following sections discuss topography and soils, vegetation, and wildlife within the project site.

Topography and Soils

The topography of the project site is relatively flat, with elevation ranging from 1,318 to 1,349 ft amsl.

One soil classification was mapped on the project site and the soils on site are consistent with Soboba gravelly loamy sand, 0 to 9 percent slopes (Table A and Figure 3). These mapped soils are not considered hydric and have a drainage class of excessively drained (USDA 2021). The existing soils are highly compacted throughout the entirety of the project site, which is indicative of long-term disturbance of the soils and vegetation and is consistent with the current site conditions.

Table A: Mapped Soils Classification

Soil	Drainage Class	Frequency of Flooding	Frequency of Ponding	Hydric Soil Rating
Soboba gravelly loamy sand	Excessively drained	Rare	None	No

Source: United States Department of Agriculture (2021).

Vegetation and Land Cover

The project site is entirely disturbed and exhibits minimal cover by native species. Figure 4 shows a map of vegetation and land cover types existing on the project site and site photographs are provided in Figure 5. The acreages of each vegetation/land cover category occurring on the project parcel are shown in Table B, below.

Table B: Mapped Vegetation/Land Cover Classifications

Vegetation/Land Cover	Project Acreage
Developed	1.56
Ornamental Vegetation	0.04
Ruderal/Barren	4.48
Coast Live Oak	0.08
Total	**6.16**

Source: Compilation from field surveys LSA conducted on August 26, 2022.

A total of 34 vascular plant species were identified within the project parcel and BSA during the August 26, 2022 field survey. A total of 26 (approximately 76 percent) of those plant species represent nonnative taxa. See Attachment B for a list of plant species identified. The following describes the vegetation and land cover types occurring on the project site and adjacent BSA.

- **Developed**: Developed sites consist of paved areas, buildings, and other areas that are cleared for anthropogenic purposes and generally do not allow for the establishment of vegetation. This land cover type was present mainly in the western portion of the site.

- **Ornamental Vegetation**: Ornamental vegetation consists of introduced and regularly maintained trees, shrubs, flowers, and turf grass. Ornamental cover on the project site was composed of nonnative Tasmanian bluegum (*Eucalyptus globulus*) present in the western section of the project site and within the BSA, and several native western sycamores (*Platanus racemosa*) along the northern border of the BSA, on Foothill Boulevard.

- **Ruderal/Barren:** Areas classified as ruderal/bare ground consist of early successional grassland with scattered pioneering herbaceous plants that readily colonize disturbed ground. Ruderal grassland is dominated by many nonnative grassland species. The majority of the project site consists of this vegetation classification, and these areas appear to be regularly maintained based on historic aerial imagery and conditions observed during the site survey. Dominant nonnative plant species onsite include Russian thistle (*Salsola tragus*), tree tobacco (*Nicotiana glauca*), castor bean (*Ricinus communis*), and red brome (*Bromus madritensis* ssp. *rubens*).

- **Coast Live Oak**: Two native coast live oaks are present on the project site in the northwestern corner. These two oaks are isolated and do not constitute an oak woodland.

Wetlands and Other Jurisdictional Waters

The United States Army Corps of Engineers (USACE), under Section 404 of the federal Clean Water Act (CWA), regulates discharges of dredged or fill material into “waters of the United States.” These waters include wetlands and non-wetland bodies of water that meet specific criteria, including a connection to interstate commerce. This connection may be direct (through a tributary system linking a stream channel with traditional navigable waters used in interstate or foreign commerce) or it may be indirect (through a connection identified in USACE regulations). The USACE typically regulates as non-wetland waters of the United States any body of water displaying an “ordinary high water mark”. To be considered a “jurisdictional wetland” under Section 404, an area must possess

hydrophytic vegetation, hydric soils, and wetland hydrology. The CDFW, under Sections 1600 et seq. of the California Fish and Game Code, regulates alterations to lakes, rivers, and streams. A stream is defined by the presence of a channel bed and banks and at least an occasional flow of water. The Regional Water Quality Control Board (RWQCB) is responsible for the administration of Section 401 of the CWA through water quality certification of any activity that may result in a discharge to jurisdictional waters of the United States The RWQCB may also regulate discharges to "waters of the State," including wetlands, under the California Porter-Cologne Water Quality Control Act.

No drainage features, ponded areas, wetlands, or riparian habitat subject to jurisdiction of the CDFW, the USACE, and/or the RWQCB were found within the project area or BSA.

Wildlife

Although the tall eucalyptus trees and sycamores within the BSA could provide suitable foraging and nesting habitat for a variety of bird species, the disturbed/ruderal vegetation occurring within the project site is considered low-quality habitat for most native wildlife species. These trees are outside the project site and will not be impacted by the proposed development. A total of eight wildlife species were observed in (or foraging over) the project parcel during the September 2022 field survey: western fence lizard (*Sceloporus occidentalis*), mourning dove (*Zenaida macroura*), black phoebe (*Sayornis nigricans*), American crow (*Corvus brachyrhynchos*), red-tailed hawk (*Buteo jamaicensis*), northern mockingbird (*Mimus polyglottos*), orange sulphur butterfly (*Colias eurytheme*), and cabbage white butterfly (*Pieris rapae*). Each of these species commonly occur in and around developed areas throughout Southern California.

No federally listed, State-listed, or other special-status species or sign were observed during the field survey. No habitat is present on the project site or BSA that would attract special-status wildlife species. Based on field observations and the location of the project parcel, there are no indications that the site functions as a wildlife movement corridor or an important stopover point for migratory species.

Special-Status Species

No special-status plant or wildlife species were observed during the field survey, and there are no known occurrence records of special-status species within 0.5 mile of the project parcel. Table C, below, identifies those special-status plant and animal species with CNDDB occurrence records within the *Ontario, California* USGS quadrangle, and includes detailed information about each species' habitat and distribution, State and federal status designations, and probability of occurrence within the project disturbance limits. It should be noted that the literature review and record search covered a large, geographically diverse area containing numerous habitat types not found within or around the project site.

None of the species identified in the literature review are expected to occur on the project site due to historic and ongoing anthropogenic disturbances and the lack of suitable habitats for these species. While not a federally or State-protected species, the non-listed special-status burrowing owl (*Athene cunicularia*) has a low to moderate probability of occurrence on the project site.

Table C: Special-Status Species Occurrence Probability

Species	Status	Habitat and Distribution	Activity Period	Occurrence Probability
Plants				
Berberis nevinii **Nevin's barberry**	US: FE CA: CE CNPS: 1B.1	Perennial stem succulent that inhabits gravelly wash margins in alluvial scrub or coarse soils and rocky slopes in chaparral at 70 to 825 meters (220 to 2,700 feet) in elevation. Known occurrences at higher elevations are planted (not natural). Known only from Los Angeles, San Bernardino, Riverside, and San Diego counties, California.	Blooms May through June	**Absent:** Project site and vicinity lack suitable habitat. Conspicuous perennial species was not observed during site survey. No CNDDB records within 1 mile.
Dodecahema leptoceras **Slender-horned spineflower**	US: FE CA: CE CNPS: 1B.1	Annual herb that occurs in sandy cobbly riverbed alluvium in alluvial fan sage scrub (usually late seral stage), on floodplain terraces and benches that receive infrequent overbank deposits from generally large washes or rivers, where it is most often found in shallow silty depressions dominated by leather spineflower (*Lastarriaea coriacea*) and other native annual species and is often associated with cryptogamic soil crusts composed of bryophytes, algae and/or lichens. Occurs at 200 to 760 meters (600 to 2,500 feet) in elevation. Known only from Los Angeles, Riverside, and San Bernardino counties, California.	Blooms April through June	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Horkelia cuneata var. puberula **Mesa horkelia**	US: - CA: - CNPS: 1B.1	Perennial herb that occurs in sandy or gravelly soils in chaparral, or rarely in cismontane woodland or coastal scrub at 70 to 825 meters (200 to 2,700 feet) elevation. Known only from San Luis Obispo, Santa Barbara, Ventura, Los Angeles, Orange, and San Bernardino counties, California. Believed extirpated from Riverside and San Diego counties.	Blooms February through July	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Reptiles				
Anniella stebbinsi **Southern California legless lizard**	US: – CA: SSC	Lives mostly underground, burrowing in moist loose sandy soil or leaf litter with plant cover. Occurs in sparsely vegetated areas of beach dunes, chaparral, pine-oak woodlands, desert scrub, sandy washes, and stream terraces with sycamores, cottonwoods, or oaks. Often can be found under surface objects such as rocks, boards, driftwood, and logs.	April through July, live young born July-September	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.

Table C: Special-Status Species Occurrence Probability

Species	Status	Habitat and Distribution	Activity Period	Occurrence Probability
Arizona elegans occidentalis **California glossy snake**	US: - CA: SSC	Occurs in scrub and grassland habitats, often with loose or sandy soils. Patchily distributed from the eastern portion of San Francisco Bay to southern San Joaquin Valley and in non-desert areas of Southern California. Also occurs in Baja California, Mexico.	Most active March through June (nocturnal)	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Phrynosoma blainvillii **Coast horned lizard**	US: – CA: SSC	Occurs primarily in sandy soil in open areas, especially washes and floodplains, in many plant communities. Requires open areas for sunning, bushes for cover, patches of loose soil for burial, and an abundant supply of ants or other insects. Occurs west of the deserts from northern Baja California north to Shasta County below 8,000 feet in elevation.	April through July with reduced activity August through October	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Birds				
Athene cunicularia **Burrowing owl**	US: - CA: SSC	Open country in much of North and South America. Usually occupies ground squirrel burrows in open, dry grasslands, agricultural and range lands, railroad rights-of-way, and margins of highways, golf courses, and airports. Often utilizes man-made structures, such as earthen berms; concrete culverts; and concrete, asphalt, rock, or wood debris piles. They avoid thick, tall vegetation, brush, and trees, but may occur in areas where brush or tree cover is less than 30 percent.	Year-round	**Low to Moderate:** Project site has disturbed soils conducive to burrowing owl usage, but no burrows or sign of burrowing owl usage were observed during survey and no CNDDB records within 1 mile.
Buteo swainsoni **Swainson's hawk**	US: - CA: CT	Occurs in open desert, grassland, or cropland containing scattered, large trees or small groves. Breeds in stands with few trees in juniper-sage flats, riparian areas, and in oak savannah in the Central Valley. Forages in adjacent grasslands or suitable grain or alfalfa fields, or livestock pastures. Breeds and nests in western North America; winters in South America. Uncommon breeding resident and migrant in the Central Valley, Klamath Basin, Northeastern Plateau, Lassen County, and Mojave Desert. Very limited breeding reported from Lanfair Valley, Owens Valley, Fish Lake Valley, and Antelope Valley. In Southern California, now mostly limited to	Spring and fall (in migration)	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.

Table C: Special-Status Species Occurrence Probability

Species	Status	Habitat and Distribution	Activity Period	Occurrence Probability
		spring and fall transient. Formerly abundant in California with wider breeding range.		
Polioptila californica **Coastal California gnatcatcher**	US: Threatened CA: SSC	Inhabits coastal sage scrub in low-lying foothills and valleys up to about 1,640 feet in elevation in cismontane of southwestern California.	Year-round resident. Nests February through August.	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Mammals				
Antrozous pallidus **Pallid bat**	US: - CA: SSC	Most common in open, dry habitats with rocky areas for roosting. Day roosts in caves, crevices, rocky outcrops, tree hollows or crevices, mines and occasionally buildings, culverts, and bridges. Night roosts may be more open sites, such as porches and open buildings. Grasslands, shrublands, woodlands, and forest in western North America.	Year-round; nocturnal	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Chaetodipus fallax **Northwestern San Diego pocket mouse**	US: - CA: SSC	Found in sandy herbaceous areas, usually associated with rocks or coarse gravel in coastal scrub, chaparral, grasslands, and sagebrush, from Los Angeles County through southwestern San Bernardino, western Riverside, and San Diego counties to northern Baja California.	Active year-round	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Dipodomys merriami parvus **San Bernardino kangaroo rat**	US: FE CA: CE	Gravelly and sandy soils of alluvial fans, braided river channels, active channels and terraces; San Bernardino Valley (San Bernardino County) and San Jacinto Valley (Riverside County). In San Bernardino County, this species occurs primarily in the Santa Ana River and its tributaries north of Interstate 10, with small remnant populations in the Etiwanda alluvial fan, the northern portion of the Jurupa Mountains in the south Bloomington area, and in Reche Canyon. In Riverside County, this species occurs along the San Jacinto River east of approximately Sanderson Avenue, and along Bautista Creek. Remnant populations may also occur within Riverside County in Reche Canyon, San Timoteo Canyon, Laborde Canyon, the Jurupa Mountains, and the Santa Ana River Wash north of State Route 60.	Active year-round; nocturnal	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.

Table C: Special-Status Species Occurrence Probability

Species	Status	Habitat and Distribution	Activity Period	Occurrence Probability
Eumops perotis californicus **Western mastiff bat**	US: - CA: SSC	Occurs in many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral, etc.; roosts in crevices in vertical cliff faces, high buildings, and tunnels, and travels widely when foraging.	Active year-round; nocturnal	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Lasiurus xanthinus **Western yellow bat**	US: - CA: SSC	Found mostly in desert and desert riparian areas of the southwest United States, but also expanding its range with the increased usage of native and nonnative ornamental palms in landscaping. Individuals typically roost amid dead fronds of palms in desert oases but have also been documented roosting in cottonwood trees. Forage over many habitats.	Active year-round; nocturnal	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Neotoma lepida intermedia **San Diego desert woodrat**	US: - CA: SSC	Found in desert scrub and coastal sage scrub habitat, especially in association with cactus patches. Builds stick nests around cacti, or on rocky crevices. Occurs along the Pacific slope from San Luis Obispo County to northwestern Baja California.	Year-round, mainly nocturnal, occasionally crepuscular and diurnal	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.
Nyctinomops macrotis **Big free-tailed bat**	US: - CA: SSC	Inhabits rugged, rocky canyon country in southwestern United States. Found from northern South America and the Caribbean Islands northward to the western United States. In the southwestern United States, populations appear to be scattered.	Year-round	**Not expected:** Project site and vicinity lack suitable habitat. No CNDDB records within 1 mile.

Source: Compiled by LSA (2022).
US: Federal Classifications
FE Listed as Endangered
FT Listed as Threatened
CA: State Classifications
CE Listed as Endangered
SSC Species of Special Concern. Refers to animals with vulnerable or seriously declining populations.
SA Special Animal. Refers to any other animal monitored by the California Natural Diversity Database, regardless of its legal or rarity status.
1B California Native Plant Society Rare Plant Rank 1B – rare, threatened or endangered in California and elsewhere.
CNDDB = California Natural Diversity Database

IMPACT FINDINGS

VEGETATION AND HABITAT IMPACTS

The project would not result in any direct impacts to native habitats or sensitive natural communities. Permanent direct impacts to nonnative ornamental landscaping, ruderal vegetation, and previously developed areas within the project site would occur during project grading and construction activities. Two native coast live oaks would be removed for the proposed project activities.

THREATENED AND ENDANGERED SPECIES

Under provisions of Section 7(a)(2) of the federal Endangered Species Act, a federal agency that permits, licenses, funds, or otherwise authorizes a project activity must consult with the USFWS to ensure that its actions would not jeopardize the continued existence of any listed threatened or endangered species or destroy or adversely modify critical habitat. The USFWS designates as threatened or endangered species that are at risk of extinction and may also adopt recovery plans that identify specific areas that are essential to the conservation of a listed species. Critical habitat areas that may require special management considerations or protections can also be designated.

CESA is administered by the CDFW and prohibits the "take" of plant and animal species identified as either threatened or endangered in the State of California by the Fish and Game Commission (Fish and Game Code Sections 2050 to 2097). "Take" is defined as to hunt, pursue, catch, capture, or kill. Sections 2091 and 2081 of CESA allow the CDFW to authorize exceptions to the prohibition of "take" of State-listed threatened or endangered plant and animal species for purposes such as public and private development. The CDFW requires formal consultation to ensure that a proposed project's actions would not jeopardize the continued existence of any listed species or destroy or adversely affect listed species' habitats.

As described in Table C, no regionally occurring special-status animal species are expected on the project site or to be adversely affected by the project due to the lack of suitable habitats and the developed/disturbed conditions within the direct disturbance limits of the project.

As described in Table C, no federal or State-listed endangered plant species are expected to occur on the project site. The project site has no suitable soils to support Nevin's barberry (*Berberis nevinii*), slender-horned spineflower (*Dodecahema leptoceras*), or mesa horkelia (*Horkelia cuneata var. puberula*). Therefore, the project would have no effects on federally listed endangered plant species.

No USFWS designated critical habitat is present on the project site. Therefore, the project would have no effects on designated critical habitat.

NON-LISTED SPECIAL-STATUS SPECIES

The following non-listed special-status species identified in Table A are not expected to occur on the project site due to a lack of suitable habitat: Southern California legless lizard (*Anniella stebbinsi*),

pallid bat (*Antrozous pallidus*), California glossy snake (*Arizona elegans occidentalis*), burrowing owl (*Athene cunicularia*), western yellow bat (*Lasiurus xanthinus*), San Diego desert woodrat (*Neotoma lepida intermedia*), big free-tailed bat (*Nyctinomops macrotis*), and coast horned lizard (*Phrynosoma blainvillii*). These species all have a limited population distribution in Southern California and development is further reducing their ranges and numbers. These animals have no official State or federal protection status but require consideration under CEQA.

However, burrowing owl have a low to moderate probability of occurrence within the project site. Burrowing owls occur in open country in much of North America, and usually occupy ground squirrel burrows in open, dry grasslands, agricultural and range lands, and other developed/ornamental areas. They often utilize man-made structures and avoid tall, thick vegetation and brush. While the project site does have disturbed soils and minimal vegetation cover conducive to burrowing owl usage, no burrows or signs of burrowing owls were observed during the field survey. Given the probability of occurrence is "Low to Moderate", LSA recommends the following impact avoidance measure:

- **Preconstruction Presence/Absence Survey**: 14 days prior to the commencement of proposed project activities, a qualified LSA biologist will conduct a Presence/Absence survey of suitable habitat on the project site as well as survey for signs of scat/ burrow usage. If burrowing owls/active burrows are directly observed within the project site during the preconstruction survey, a suitable buffer will be placed around the active burrow as determined by a qualified biologist and avoided until the individuals leave on their own accord. Additionally, if burrowing owl is found during the preconstruction survey, the project proponent will need to inform the CDFW and United States Fish and Wildlife Service (USFWS) and prepare a Burrowing Owl Protection and Relocation Plan for approval by these agencies prior to initiating ground disturbance.

No other non-listed special-status species are anticipated to occur on the project site. The project would have no effects on non-listed special-status species.

NESTING BIRDS

There are two coast live oaks and one small eucalyptus on the project site. Several large ornamental trees within the BSA that provide suitable nesting habitat for a variety of native and migratory bird species that are protected while nesting. To ensure compliance with the federal Migratory Bird Treaty Act and California Fish and Game Code Sections 3500–3516, a pre-construction nesting bird survey is recommended prior to any project activities planned during the nesting bird season (February 15 through August 31). With successful implementation of the recommended impact avoidance measures (see below), impacts to nesting birds would be avoided.

- **Construction Activity:** If possible, vegetation removal should be avoided during the nesting bird season (February 1–August 31). If nesting bird season is unavoidable, prior to construction activities, including vegetation removal, a pre-construction nesting bird survey will be conducted by a qualified biologist no more than 3 days (72 hours) prior to any construction activities and vegetation removal. Should nesting birds be found, an exclusionary buffer will be established by the qualified biologist. The buffer will be clearly marked in the field by construction personnel

under guidance of the qualified biologist. No construction activities will be allowed within this zone until the qualified biologist determines that the young have fledged, or the nest is no longer active.

- **Tree Trimming and Removal:** To the greatest extent feasible, tree trimming/removal activities will be performed outside of the nesting season for birds (February 1–August 31). If trimming or removal of trees during the nesting bird season cannot be avoided, a qualified biologist will monitor tree trimming and removal activities.

- **Night Work Lighting:** If possible, night work should be avoided during the nesting bird season (February 1–August 31). If night work (i.e., between dusk and dawn) is anticipated within 100 ft of an active bird nest and/or nest exclusionary buffer, night lighting will be used only in areas of active work and focused on the direct area(s) of work and away from nesting locations to the greatest extent practicable. The qualified biologist may adjust the exclusionary buffer size to decrease the possibility of disturbance by night work, if warranted. This measure would minimize disturbance and prevent nest failure. If birds are showing signs of distress, such as flushing from their nests, work activities shall be modified to prevent the nest from being abandoned.

WILDLIFE MOVEMENT

Wildlife species that occur in the project vicinity are adapted to the urban-wildland interface. The noise, vibration, light, dust, or human disturbance within construction areas would only temporarily deter wildlife from using areas in the immediate vicinity of construction activities. These indirect effects could temporarily alter migration behaviors, territories, or foraging habitats in select areas. However, because these are temporary effects, it is likely that wildlife already living and moving close to urban development would alter their normal functions for the duration of the project construction and then reestablish these functions once all temporary construction effects have been removed. As the project site is surrounded by existing commercial and industrial development, the proposed project's activities would not place any permanent barriers within any known wildlife movement corridors or interfere with habitat connectivity. The impact is considered less than significant, and no mitigation is warranted.

LOCAL TREE ORDINANCE

The City of Upland has no specific tree ordinance covering oak tree removal, protection, or replacement. Two native coast live oaks would be removed for the proposed project's activities. As such, it is recommended that the applicant revise landscaping plans that are part of the application package to include two new coast live oaks as part of the overall landscaping palette.

REFERENCES

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Google Earth. 2022. Aerial photographs of the project site and surrounding areas (accessed September 23, 2022).

United States Department of Agriculture (USDA). 2019. Web Soil Survey. Website: http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx (accessed September 23, 2022).

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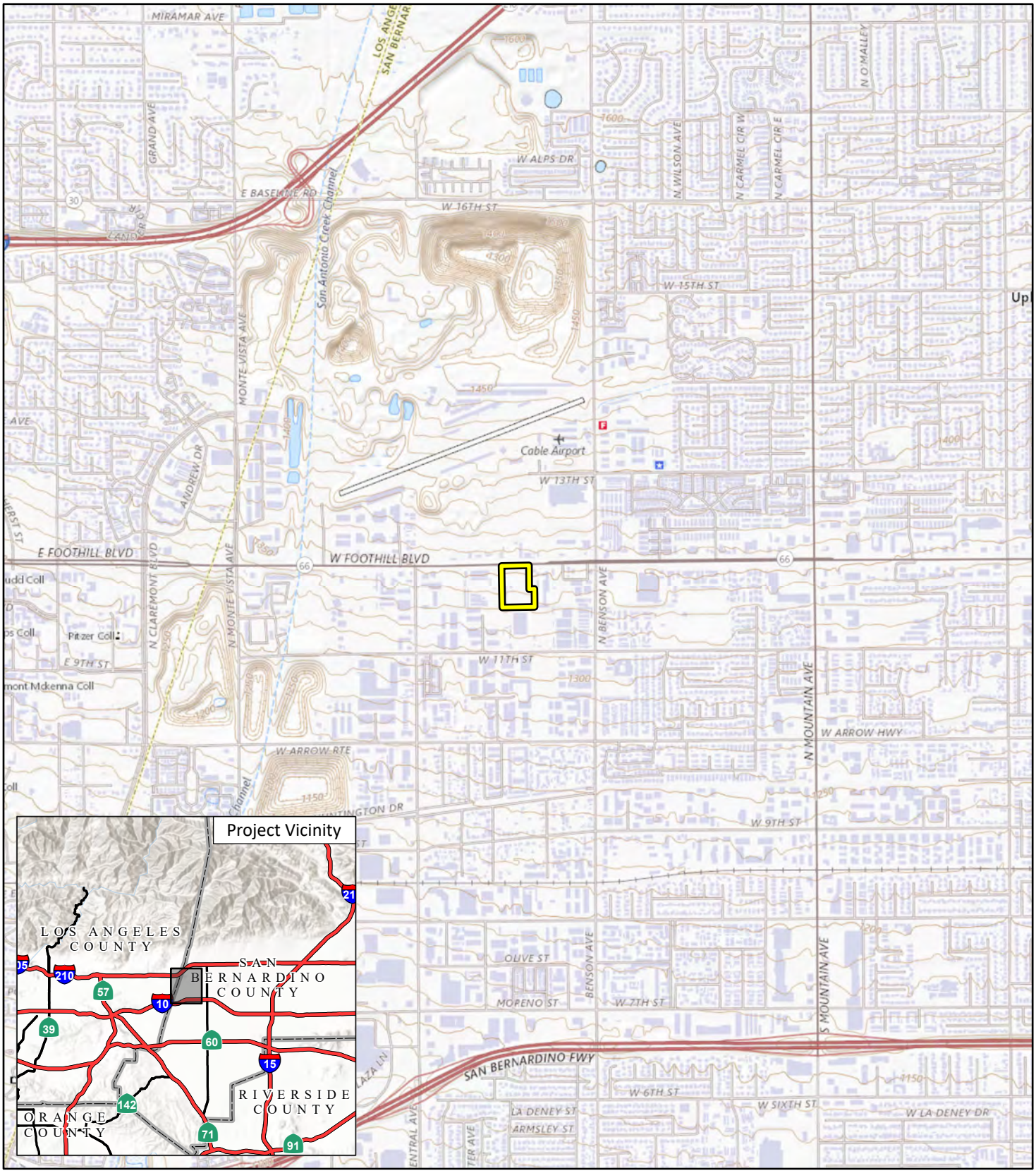
APPENDIX A

FIGURES 1–5

Figure 1: Regional and Project Location
Figure 2: Project Site Plan
Figure 3: Soils
Figure 4: Land Cover Types
Figure 5: Representative Site Photographs



LSA

FIGURE 1

1760–1780 West Foothill Boulevard Warehouse Project

Regional and Project Location

SOURCE: USGS The National Map (2018)

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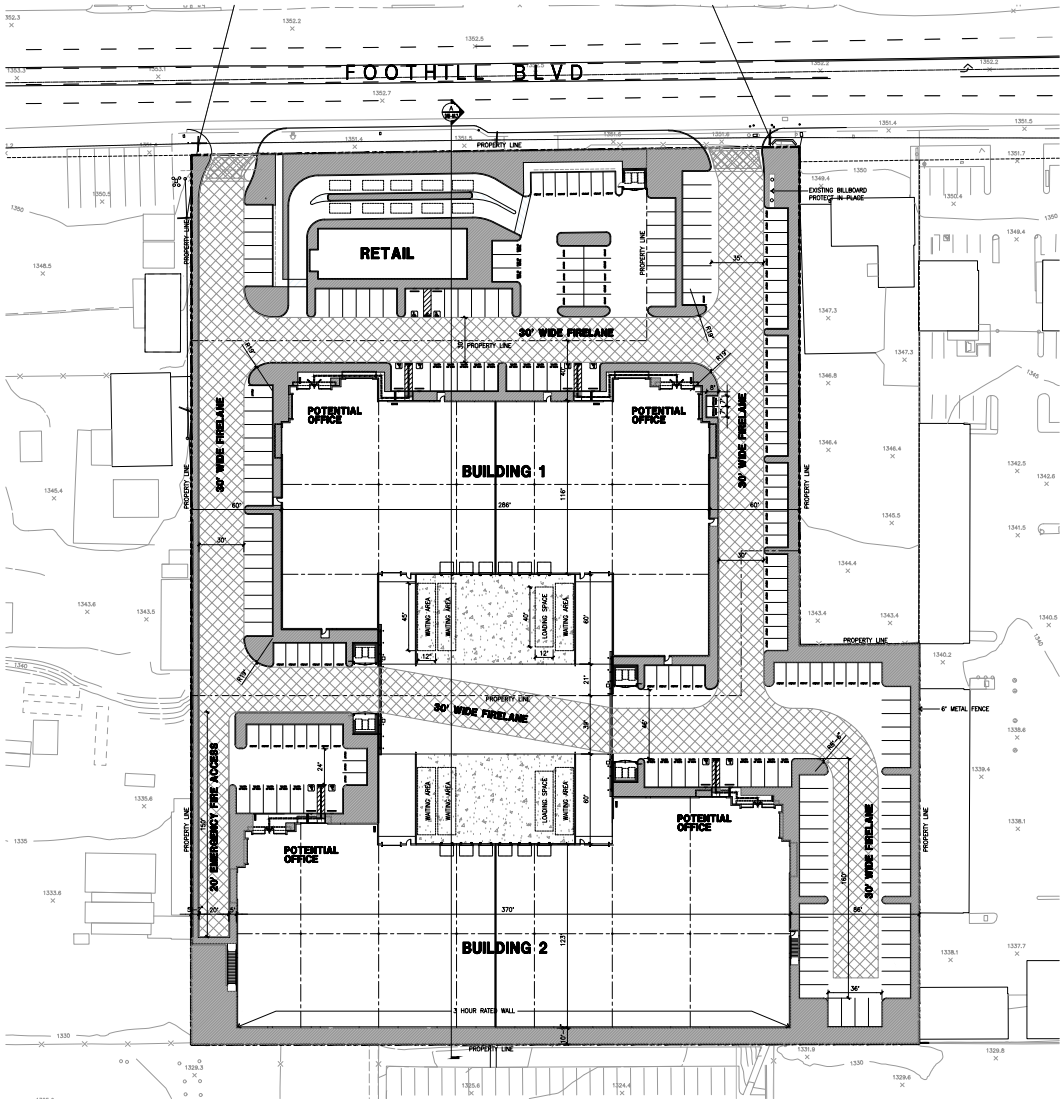


LSA

FIGURE 2

N

0 75 150

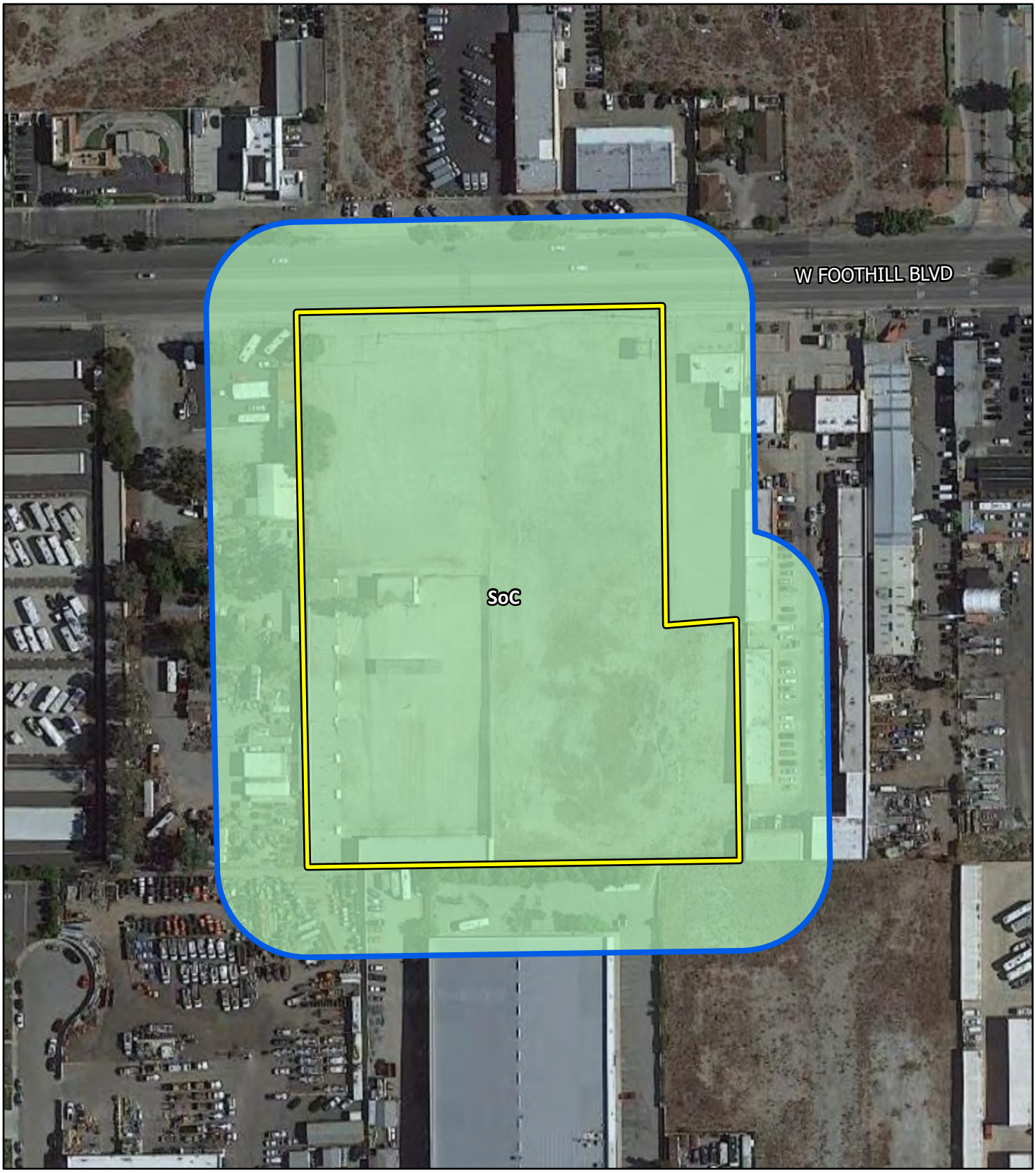
FEET

SOURCE: HPA Architecture

I:\MVP2201\G\Site_Plan.ai (2/27/2023)

West Foothill Development Project

Site Plan



LSA

Project Location

Biological Study Area

Soils

SoC - Soboba gravelly loamy sand, 0 to 9 percent slopes (11.87 acres)

FIGURE 3

N

0 75 150

FEET

SOURCE: Google Imagery (2020)

1760–1780 West Foothill Boulevard Warehouse Project

Soils

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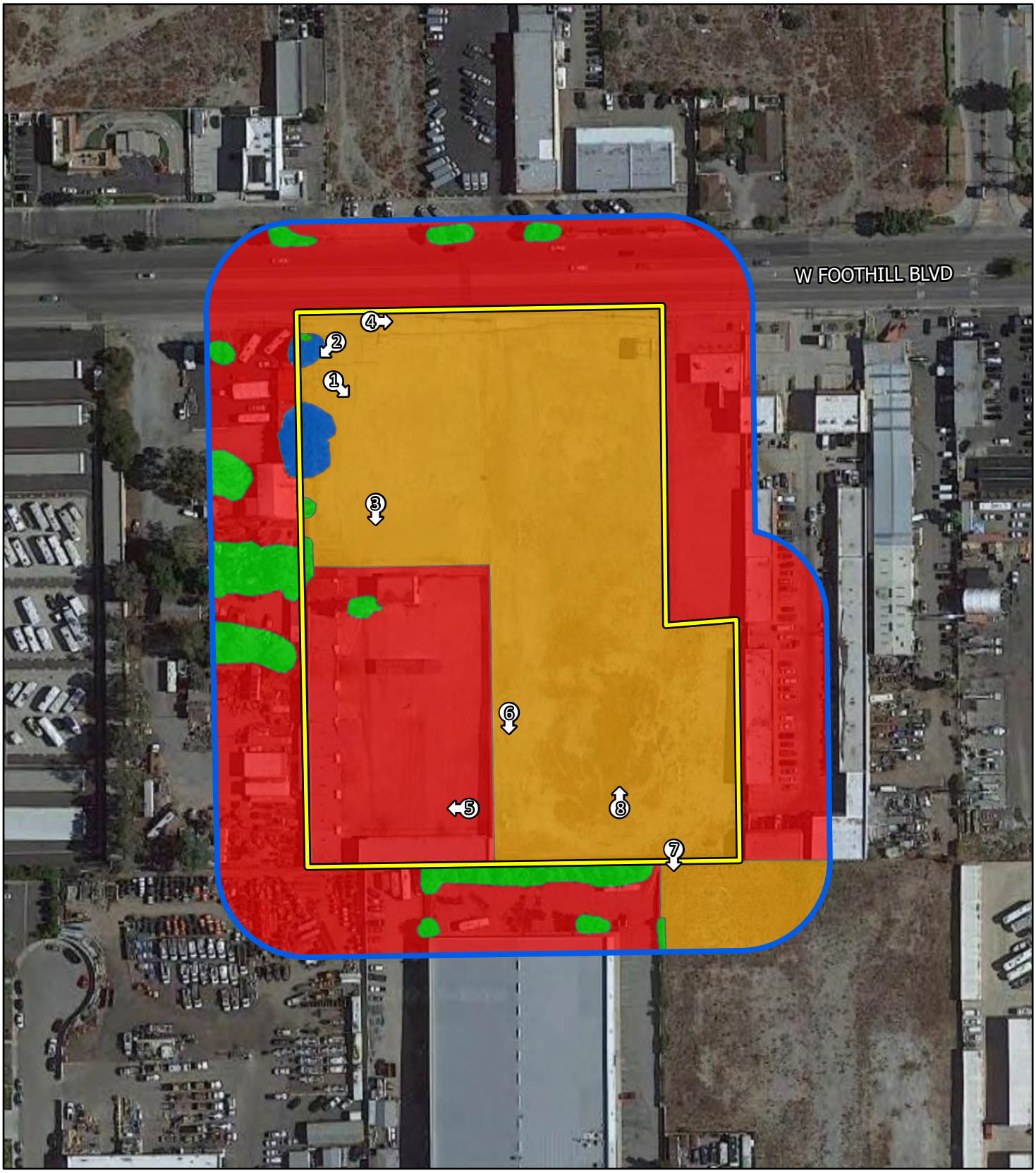

LSA

Project Location
Biological Study Area
Photo Locations

Land Cover
Developed (1.56 acres)
Ornamental (0.04 acre)
Ruderal/Disturbed (4.48 acres)
Coast Live Oak (0.08 acre)

FIGURE 4

N

0 75 150
FEET

SOURCE: Google Imagery (2020)

1760–1780 West Foothill Boulevard Warehouse Project

Land Cover Types

I:\MVP2201\GIS\Pro\Foothill Boulevard MVP Warehouse Project\Foothill Boulevard MVP Warehouse Project.aprx (11/9/2022)

Picture 1: View looking southeast at ruderal/barren project site. August 26, 2022.

Picture 2: View looking southwest at two native coast live oaks on the western boundary of the project site. August 26, 2022.

Picture 3: View looking south at abandoned warehouses on project site, with ornamental trees. August 26, 2022.

Picture 4: View looking east along Foothill Boulevard, Upland. August 26, 2022.

LSA

FIGURE 5

1760-1780 West Foothill Boulevard
Warehouse Project

Representative Site Photographs

I:\MVP2201\G\Photos_BA.cdr (11/9/2022)

Picture 5: View looking west within abandoned warehouse complex on the project site, looking at adjacent ornamental trees. August 26, 2022.

Picture 6: View looking south at southern project boundary, at ornamental trees within the BSA. August 26, 2022.

Picture 7: View looking south at ruderal vegetation within the southern portion of the BSA, taken from southern boundary of project site. August 26, 2022.

Picture 8: View looking northeast at ruderal/barren project site and adjacent industrial buildings. August 26, 2022.

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FIGURE 5

1760-1780 West Foothill Boulevard
Warehouse Project

Representative Site Photographs

APPENDIX B

VASCULAR PLANT SPECIES OBSERVED

LSA biologist Heather Monteleone observed the following vascular plant species on the project site and BSA.

* Introduced species not native to California

VASCULAR PLANT SPECIES OBSERVED

GYMNOSPERMS	
Pinaceae	**Pine Family**
**Pinus* sp.	Pine
EUDICOTS	
Asteraceae	**Sunflower Family**
Bebbia juncea	Sweetbush
Ericameria nauseosa	Common rabbit brush
Erigeron canadensis	Common horseweed
**Helminthotheca echiodes*	Bristly ox-tongue
Heterotheca grandiflora	Telegraph weed
**Lactuca serriola*	Prickly lettuce
Pseudognaphalium californicum	California everlasting
**Pseudognaphalium luteoalbum*	Weedy cudweed
**Sonchus oleraceus*	Common sow-thistle
Brassicaceae	**Mustard Family**
**Brassica nigra*	Black mustard
Chenopodiaceae	**Goosefoot Family**
**Salsola tragus*	Russian-thistle
Euphorbiaceae	**Spurge Family**
**Chamaesyce maculata*	Spotted spurge
Croton setigerus	Doveweed
**Euphorbia peplus*	Petty spurge
**Ricinus communis*	Castor bean
Fabaceae	**Legume Family**
**Tipuana tipu*	Tipu tree
Fagaceae	**Oak Family**
Quercus agrifolia var. *agrifolia*	Coast live oak
Geraniaceae	**Geranium Family**
**Erodium cicutarium*	Redstem filaree
Myrtaceae	**Myrtle Family**
**Corymbia citriodora*	Lemon scented gum
**Eucalyptus sp.*	Eucalyptus
**Eucalyptus camaldulensis*	River red gum
**Eucalyptus globulus*	Tasmanian bluegum
Platanaceae	**Sycamore Family**
Platanus racemosa	Western sycamore
Rosaceae	**Rose Family**
**Rhaphiolepis indica*	Indian hawthorn
Rutaceae	**Rue Family**
**Citrus sinensis*	Orange tree
Solanaceae	**Nightshade Family**
**Datura stramonium*	Thorn-apple
**Nicotiana glauca*	Tree tobacco

VASCULAR PLANT SPECIES OBSERVED

Zygophyllaceae	**Caltrop Family**
**Tribulus terrestris*	Puncture vine
MONOCOTS	
Arecaceae	**Palm Family**
**Washingtonia robusta*	Mexican fan palm
Poaceae	**Grass Family**
**Bromus diandrus*	Ripgut grass
**Bromus madritensis* ssp. *rubens*	Red brome
**Hordeum murinum* ssp. *leporinum*	Hare barley
**Pennisetum setaceum*	Crimson fountain grass

Taxonomy and scientific nomenclature generally conform to Baldwin, B.G., D.H. Goldman et al., eds. (2012; The Jepson Manual: Vascular Plants of California, 2nd edition; University of California Press, Berkeley and Los Angeles, California). Common names for each taxa generally conform to Roberts, F.M., Jr. (2008; The Vascular Plants of Orange County, California: An Annotated Checklist; F.M. Roberts Publications, San Luis Rey, California) except where Abrams, L. (1923, 1944, and 1951; Illustrated Flora of the Pacific States: Washington, Oregon, and California, vols. I–III; Stanford University Press, Stanford, California) and Abrams, L. and Ferris, R.S. (1960; Illustrated Flora of the Pacific States: Washington, Oregon, and California, vol. IV; Stanford University Press, Stanford, California) were used, particularly when species-specific common names were not identified in Roberts, F.M., Jr. (2008).

CULTURAL RESOURCES ASSESSMENT

WEST FOOTHILL DEVELOPMENT PROJECT

CITY OF UPLAND

SAN BERNARDINO COUNTY, CALIFORNIA

LSA

July 2023

CULTURAL RESOURCES ASSESSMENT

WEST FOOTHILL DEVELOPMENT PROJECT

CITY OF UPLAND

SAN BERNARDINO COUNTY, CALIFORNIA

Prepared for:

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LSA Project No. MVP2201

National Archaeological Data Base Information:

Type of Study: Records Search, Survey
USGS Quadrangle: *Ontario, California*
Acreage: 6 acres
Keywords: Phase I survey, negative results, no monitoring recommended

LSA

July 2023

MANAGEMENT SUMMARY

LSA conducted a Cultural Resources Assessment for the West Foothill Development Project Site located at 1780 West Foothill Boulevard in the City of Upland, San Bernardino County, California. The assessment included a records search, field surveys, and this report. The subject property is approximately 6 acres that is partially developed and partially vacant. The City as Lead Agency for the project required this study as part of the environmental review process to comply with the California Environmental Quality Act (CEQA).

The purpose of the study is to provide the City with the necessary information and analysis to determine, as mandated by CEQA, whether the proposed project would cause substantial adverse changes to any archaeological resources that may exist in or around the project area. In order to identify and evaluate such resources, LSA conducted a historical/archaeological resources records search.

No cultural resources were indicated within the project parcels by the records search, and none were identified during the survey. Although the project is along Route 66, this segment of the road has been previously evaluated as not a “historical resource" under CEQA, and therefore redevelopment of the project area does not constitute a significant impact to this resource. The project area has sustained severe disturbance, and sensitivity for intact subsurface resources is low. Therefore, no further cultural resource studies or monitoring are recommended.

In the event that archaeological materials are encountered during construction, all construction work should be halted and a qualified archaeologist consulted to determine the appropriate treatment of the discovery (California Code of Regulations, Title 14, Chapter 3, Section 15064.5(f)).

In the event human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner and Upland Police Department must be notified of the find immediately. If the remains are determined to be Native American, the County Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC. The MLD will have the opportunity to offer recommendations for the disposition of the remains.

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FIGURE

Figure 1: Regional and Project Location 2

APPENDIX

A: RECORDS SEARCH RESULTS

LIST OF ABBREVIATIONS AND ACRONYMS

amsl	above mean sea level
APN	Assessor's Parcel Number
CEQA	California Environmental Quality Act
City	City of Upland
MLD	Most Likely Descendant
NAHC	Native American Heritage Commission
PRC	Public Resources Code
USGS	United States Geological Survey

CULTURAL RESOURCES ASSESSMENT
WEST FOOTHILL DEVELOPMENT PROJECT

INTRODUCTION

At the request of Magellan Value Partners, LSA performed a Cultural Resources Assessment for the West Foothill Development Project Site located on 6 acres at 1780 West Foothill Boulevard in the City of Upland (City), San Bernardino County, California (Figure 1). The subject property of the study, Assessor's Parcel Numbers (APNs) 1007-091-01, -02, and -03 is located in Section 11 of Township 1 South, Range 8 West San Bernardino Baseline and Meridian, as depicted on the United States Geological Survey (USGS) *Ontario, California* 7.5-minute topographic quadrangle map. The study is part of the environmental review process for a proposed commercial development. The City, as Lead Agency for the project, required the study in compliance with the California Environmental Quality Act (CEQA) (Public Resources Code [PRC] § 21000, et seq.).

LSA completed the Cultural Resources Assessment to provide the City with the necessary information and analysis to determine, as mandated by CEQA, whether or not the proposed project would cause substantial adverse changes to any significant historical/archaeological resources that may exist in or around the project area. In order to identify and evaluate such resources, LSA conducted a historical/archaeological resources records search and carried out an intensive-level field survey. This report is a complete account of the methods, results, and final conclusion of the study.

The project consists of demolition of approximately 19,000 square feet of existing structures and a septic tank on site and construction of one 3,570 square-foot restaurant with drive-through and up to 94,435 square feet of warehouse space divided into two buildings, each up to 40' in height, that include up to 10,000 square feet of combined office/mezzanine space and a total of 12 loading docks.[1]

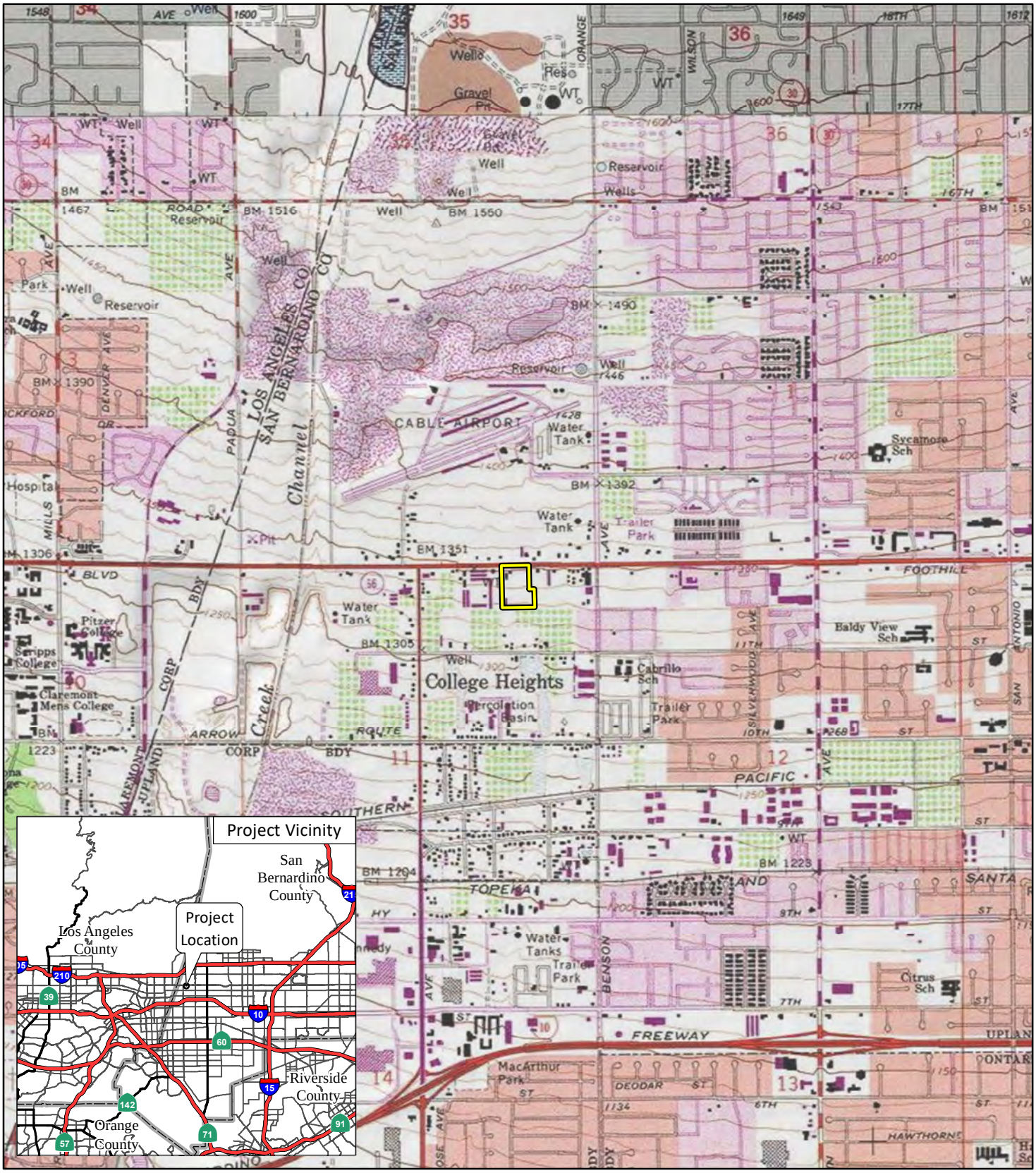
SETTING

Natural Setting

Climate and Watershed

The project region is characterized by a temperate climate, with dry, hot summers and moderate winters. Rainfall ranges from 12 to 16 inches annually (Beck and Haase 1974). Precipitation usually occurs in the form of winter rain, with warm monsoonal showers in summer. The nearest reliable natural source of water was San Antonio Creek (now channelized), which drains south approximately 0.5 mile west of the project area.

[1] The Initial Study and supporting technical studies evaluate the proposed warehouse buildings with a combined 101,092 square feet of space, while the latest plans dated 2/9/2023 and submitted to the City indicate the proposed warehouse space totals approximately 94,435 square feet. Accordingly, the environmental analysis assumes a greater square footage than proposed and therefore discloses potentially greater environmental effects than would occur under the proposed project.



LSA

FIGURE 1

Foothill Boulevard
MVP Warehouse Project
Project Location and Vicinity

SOURCE: USGS 7.5' Quad - *Ontario*(1981), *Mt. Baldy*(1988), CA

I:\MVP2201\GIS\MXD\ProjectLocation_USGS.mxd (7/7/2022)

Biology

At an average elevation of approximately 1,340 feet above mean sea level (amsl), the project is within the Lower Sonoran Life Zone of California (Schoenherr 1992), which ranges from below sea level to 3,500 feet amsl. Although the natural vegetation has been largely removed from the project by development and vegetation-abatement activities, pioneer species such as hare oat, mustard, Russian thistle, telegraph weed, tree of heaven, and xeric grasses were noted. Extensive fauna are known locally, including many endemic species of reptiles, birds, and insects.

Geology

The project area is located at the northern end of the Peninsular Ranges Geomorphic Province that extends from the Transverse Ranges to the tip of Baja California and includes the Los Angeles Basin (California Geological Survey 2002; Norris and Webb 1976). This region is characterized by a series of mountain ranges separated by northwest-trending valleys subparallel to faults branching from the San Andreas Fault. The geology of this province is similar to that of the Sierra Nevada, with numerous rock outcroppings useful to the Native Americans for resource milling, shelter, and ceremonial art.

Cultural Setting

Prehistory

Chronologies of prehistoric cultural change in Southern California have been attempted numerous times, and several are reviewed in Moratto (1984). No single description is universally accepted as the various chronologies are based primarily on material developments identified by researchers familiar with sites in a particular region and variation exists essentially due to the differences in those items found at the sites. Small differences occur over time and space, which combine to form patterns that are variously interpreted.

Currently, two primary regional culture chronology syntheses are commonly referenced in the archaeological literature. The first, Wallace (1955), describes four cultural horizons or time periods: Horizon I – Early Man (9000–6000 BC), Horizon II – Milling Stone Assemblages (6000–3000 BC), Horizon III – Intermediate Cultures (3000 BC–AD 500), and Horizon IV – Late Prehistoric Cultures (AD 500–historic contact). This chronology was refined (Wallace 1978) using absolute chronological dates obtained after 1955.

The second cultural chronology (Warren 1968) is based broadly on Southern California prehistoric cultures and was also revised (Warren 1984; Warren and Crabtree 1986). Warren's (1984) chronology includes five periods in prehistory: Lake Mojave (7000–5000 BC), Pinto (5000–2000 BC), Gypsum (2000 BC–AD 500), Saratoga Springs (AD 500–1200), and Protohistoric (AD 1200–historic contact). Changes in settlement pattern and subsistence focus are viewed as cultural adaptations to a changing environment, which begins with gradual environmental warming in the late Pleistocene, continues with the desiccation of the desert lakes, followed by a brief return to pluvial conditions, and concludes with a general warming and drying trend, with periodic reversals that continue to the present (Warren and Crabtree 1986).

Ethnography

The project area is within the traditional cultural territory of the Gabrielino (Kroeber 1925; Heizer 1968). Tribal territories were somewhat fluid and changed over time. The first written accounts of the Gabrielino are attributed to the Spanish mission fathers, and later documentation was by Johnston (1962), Blackburn (1962–1963), Hudson (1971), and others.

The territory of the Gabrielino included portions of Los Angeles, Orange, and San Bernardino Counties during ethnohistoric times, and also extended inland into northwestern Riverside County (Kroeber 1925; Heizer 1968). It encompassed an extremely diverse environment that included coastal beaches, lagoons and marshes, inland river valleys, foothills and mountains (Bean and Smith 1978).

The Gabrielino caught and collected seasonally available food resources, and led a semi-sedentary lifestyle, living in permanent communities along inland watercourses and coastal estuaries. Individuals from these villages took advantage of the varied resources available. Groups moved to temporary camps on a seasonal rotation to collect plant foods such as acorns, buckwheat, chía, berries, and fruits, and to conduct communal rabbit and deer hunts. They also established seasonal camps along the coast and near bays and estuaries to gather shellfish and hunt waterfowl (Hudson 1971).

The Gabrielino lived in small communities, which were the focus of family life. Patrilineally linked, extended families occupied each village (Kroeber 1925; Bean and Smith 1978). Both clans and villages were apparently exogamous, marrying individuals from outside the clan or village (Heizer 1968). Gabrielino villages were politically independent and were administered by a chief, who inherited his position from his father. Shamans guided religious and medical activities, while group hunting or fishing was supervised by individual male specialists (Bean and Smith 1978).

The nearest historically known Native American village to the project area was the Gabrielino community of *Tooypinga* (also described to Alfred Kroeber as *Toibi*), located approximately 5 miles to the southwest in the general area of Pomona (Kroeber 1925; McCawley 1996).

History. In California, the historic era is generally divided into three periods: the Spanish Period (1769 to 1821), the Mexican Period (1821 to 1848), and the American Period (1848 to present). As there were no resources within the project area, the historic context will be a summary of the local community during the American Period.

Upland. What would become Upland was originally the northern part of the Chaffey Brothers' Model Irrigation Colony (so named due to innovations in the irrigation and water rights of residents) of Ontario, called North Ontario. Geographic distance from the rest of the colony and the initial local prosperity of North Ontario created a sensibility of a new community amongst the residents.

While the regional citrus boom of the 1880s was fostering development in both Ontario and North Ontario, residents of the latter wanted to differentiate between their produce and that of the former for marketing purposes. Charles D. Adams (owner of the Ontario Fruit Exchange) created the Upland Citrus Association, contending that fruit from higher altitudes was usually regarded as better

quality. Despite a local economic downturn in the late 1880s, the residents were enamored with the Upland name and the community was renamed around the time its post office was opened in 1902 (Salley 1977). Upland was incorporated 4 years later, and by the mid-1910s was a thriving city with its own business district, three banks, packing houses, several churches, and a newspaper (McGroarty 1914).

Citriculture remained the economic base of the community until the 1950s, when the local citrus industry began to decline. After World War II, the groves gave way to residential development.

METHODS

Records Search

On September 6, 2022, the cultural resources records search was conducted for the project area by the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton. It included a review of all recorded historic and prehistoric archaeological sites within 1 mile of the project, as well as a review of known cultural resource survey and excavation reports.

Research

LSA conducted additional research to determine the presence or absence of structures and activities during the historic period, including online historic period aerial photographs and maps.

Archaeological Field Survey

On July 21, 2022, LSA Archaeologist Riordan Goodwin completed a pedestrian survey of the project parcels. Special attention was paid to areas of exposed soil for surface artifacts and features for artifacts and evidence of archaeosols. The purpose of this survey was to identify and document, prior to the beginning of ground-disturbing activities, any cultural residues and thus also to identify any area(s) that might be sensitive for buried cultural resources.

RESULTS

Records Search

Results of the records search at the SCCIC indicate there have been 25 previous cultural resources studies conducted within a 1-mile radius of the project area, none of which included the project area. Although no archaeological resources are documented either within the project or 1-mile radius study area (neither prehistoric nor historic period sites), 18 historic period built environment resources have been recorded, including a segment of Route 66 (Foothill Boulevard) on which the project area fronts (36-002910; see Records Search Results in Appendix A).

Research

Historic aerials indicate the setting was rural until the 1960s, when development started displacing agriculture. Development of the project area started after 1972 (Historic Aerials 2022).

Archaeological Field Survey

Visibility was poor, averaging approximately 50 percent with complete obstruction of the surface of the western half of the project area by modern development and pavement, and substantial obstruction of the eastern half by imported gravel/rocks, pulverized macadam fragments, construction and landscape dumping, and xeric vegetation. The southeastern portion of the project area has been disturbed by earth-moving and vegetation-abatement activities. No archaeological resources (or undisturbed soil surfaces) were identified within the project parcels.

Discussion

The portion of Route 66/Foothill Boulevard (36-002910) bordering the north side of the project area has been previously evaluated as not a “historical resource" under CEQA and not a contributor to the overall eligibility of the resource for either the California Register of Historical Resources or National Register of Historic Places (Walters 2007). Therefore, redevelopment of the project area does not constitute a significant impact to this resource.

RECOMMENDATIONS

No cultural resources were indicated within the project parcels by the records search, and none were identified during the survey. Although the project is along Route 66, this segment of the road has been previously evaluated as not a “historical resource" under CEQA; therefore, any impact from redevelopment of the project area does not constitute a significant impact to this resource. The project area has sustained severe disturbance, and sensitivity for intact subsurface resources is low. Therefore, no further cultural resource studies or monitoring are recommended.

In the event that archaeological materials are encountered during construction, all construction work should be halted and a qualified archaeologist consulted to determine the appropriate treatment of the discovery (California Code of Regulations, Title 14, Chapter 3, Section 15064.5(f)).

In the event human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. The County Coroner and Upland Police Department must be notified of the find immediately. If the remains are determined to be Native American, the County Coroner will notify the NAHC, which will determine and notify an MLD. With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC. The MLD will have the opportunity to offer recommendations for the disposition of the remains.

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APPENDIX A

RECORDS SEARCH RESULTS

Resources highlighted in green have been previously verified by SCCIC staff.

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-36-002910	CA-SBR-002910H	Resource Name - National Old Trails Highway; Other - Old Trails Highway/Road; CHL - 781; Other - US Highway 66; Resource Name - Historic Route 66; Other - EM-364; Other - SBd-66-0.0/4.08; Other - SRI-4153; Other - Cajon Blvd; Other - National Old Trails Monument, N K St, Needles; USFS - 05-12-53-074	Structure, Site	Historic	AH04; AH06; AH07; AH11; HP11; HP19; HP37	1962; 1963 (L. Burr Belden, Desert Magazine); 1974 (Terry Suss, SBCM); 1977 (Gallegos, BLM); 1978 (F. Berg, BLM); 1980 (J. Arbuckle); 1982 (Maggie McShan, Neddles Desert Star); 1982 (Mac & Maggie McShan, Footprints); 1982; 1986 (T. Van Bueren, Infotec); 1989 (J. Berg, Far Western); 1989; 1990; 1990 (M. Lerch, Michael K. Lerch & Associates); 1991 (J. Petersen, UC Riverside); 1992 (M. Perry, C. Bowden, Dames & Moore); 1993 (Kevin Rafferty, Archaeological Research of Southern Nevada); 1993 (L. Glover, Far Western); 1993 (Kenneth Becker, RMW Paleo Associates); 1993 (Laurie White, Archaeological Associates); 1994 (Lauren Weiss Bricker, Keith Companies); 1994 (Lauren Weiss, The Keith Co); 1995 (Lauren Bricker); 2000 (John d. Goodman, SBNF); 2000 (J. Underwood and S. Rose, KEA Environmental); 2001 (John Dietler, Tierra Environmental); 2001 (Jeffrey Wedding, Harry Reid Center for Environmental Studies); 2003 (Christie Hammond, Caltrans); 2003 (Christie Hammond, Caltrans District 8); 2004 (Dr. Jackson Underwood`, EDAW, Inc); 2004 (D. McDougall, Applied Earthworks);	SB-02201, SB-02388, SB-02447, SB-02450, SB-02710, SB-02731, SB-02791, SB-02795, SB-02796, SB-02854, SB-02862, SB-02917, SB-02918, SB-03000, SB-03020, SB-03062, SB-03146, SB-03187, SB-03203, SB-03306, SB-03539, SB-03568, SB-03674, SB-03725, SB-03728, SB-03729, SB-03786, SB-03872, SB-04212, SB-04214, SB-04427, SB-04551, SB-04861, SB-05230, SB-05498, SB-05499, SB-05553, SB-05636, SB-05637, SB-05644, SB-05890, SB-05989, SB-06038, SB-06310, SB-06316, SB-06652, SB-06812, SB-06855, SB-06954, SB-06969, SB-06971, SB-07068, SB-07156, SB-07187, SB-07366, SB-07381, SB-07416, SB-07495, SB-07504, SB-07543, SB-07570, SB-07571, SB-07712, SB-07815, SB-07870, SB-07990, SB-08021, SB-08031, SB-08094,

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
						2004 (J. Underwood, EDAW, Inc); 2004 (B. Gothar, Applied Earthworks); 2005 (Jeanette A. McKenna, McKenna et al); 2006 (David Brunzell, LSA Associates, Inc); 2007 (Andrew M. Walters, Caltrans District 8); 2007 (Casey Tibbet, LSA); 2007 (Koji Tsunoda, Jones & Stokes); 2008 (D. McDougall, Applied Earthworks); 2008 (Kurt McLean, URS); 2009 (J. Berg, Far Western); 2009 (J. George, Applied Earthworks); 2009 (Katherine Anderson, ESA); 2010 (M. Colleen Hamilton, Applied Earthworks); 2010 (Kristen Erickson, URS); 2010; 2010 (Molly Valasik); 2010 (S. Jow, AECOM); 2011 (Andrew Belcourt, LSA); 2011 (C. Higgins, Far Western); 2011 (J. Lev-Tov, SRI); 2011 (McKenna, Mckenna et al.); 2011 (James J. Schmidt, Compass Rose); 2011 (K. Chmiel, ICF); 2011 (D. Winslow, ASM); 2012 (B. Bartram, Chambers Group, Inc); 2013 (J. Castells, URS); 2013 (R. Kellawan, Far Western); 2013 (M. O'Neill, Pacific Legacy); 2014 (Josh Smallwood, Helix); 2014 (P. McGinnis, AECOM); 2015; 2015 (John Goodman, CRM Tech); 2016 (Kristina Lindgren, ECORP Consulting, Inc); 2017 (Shannon Davis, ASM); 2017 (Chris Powell, ASM);	SB-08208, SB-08210, SB-08221, SB-08224, SB-08269, SB-08322, SB-08343, SB-08450

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
						2017 (Colleen Davis, ICF); 2018 (Shannon Davis, ASM); 2018 (Anna Hoover, L&L); 2018 (none, Urbana Preservation & Planning); 2019 (Mark Bowen, Jacobs, Jacobs); 2020 (None, Urbana)	
P-36-007792	CA-SBR-007792H	Resource Name - CHB-1	Site	Historic	AH04	1993 (LANDIS, D., Greenwood and Associates)	SB-02851
P-36-007793	CA-SBR-007793H	Resource Name - CHB-2	Site	Historic	AH04	1993 (LANDIS, D., Greenwood and Associates)	SB-02851
P-36-007794	CA-SBR-007794H	Resource Name - CHB-3	Site	Historic	AH04; AH11; AH16	1993 (LANDIS, D., Greenwood and Associates)	SB-02851
P-36-018649		Resource Name - 822 N Silverwood Ave, Upland; OHP Property Number - 87932	Building	Historic	HP01		
P-36-018669		Resource Name - 1290 W 11th St, Upland; Resource Name - E.M. Dillman/Lonnie Blanton House; OHP Property Number - 87952	Building	Historic	HP01		
P-36-018671		Resource Name - 1445 W 13th St, Upland; OHP Property Number - 87938;	Building	Historic	HP01		
P-36-018709		Resource Name - 1380 W Arrow SR, Upland; OTIS Resource Number - 87884	Building	Historic	HP01		
P-36-018710		Resource Name - 1466 W Arrow SR, Upland; OTIS Resource Number - 87885	Building	Historic	HP01		
P-36-018711		1060 W. Foothill, Upland; Resource Name - Hanson/Rohrig House; OHP Property Number - 087965	Building	Historic	HP02	1988 (MERRILL, City of Upland)	SB-02801
P-36-018721		Resource Name - Br 54-39	Structure	Historic	HP19	1979 (PURCELL, UCSB Calif Inventory)	
P-36-018723		Resource Name - Br 54-38	Structure	Historic	HP19	1979 (PURCELL, UCSB Calif Inventory)	

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-36-020273		Resource Name - Br #54C-468; College Park Project	Structure	Historic	HP19	2004 (TANIGUCHI, MBA)	SB-04503
P-36-024507		Resource Name - Island Pacific Ballet	Building	Historic	HP08	2004 (Unknown, Myra L Frank & Associates/Jones & Stokes)	
P-36-033017	CA-SBR-033017H	Resource Name - LSA-CCT1801-S-2	Site	Historic	AH04	2018 (Riordan Goodwin, LSA)	
P-36-033018	CA-SBR-033018H	Resource Name - LSA-CCT1801-S-3	Site	Historic	AH04	2018 (Riordan Goodwin, LSA)	

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-19-004863	CA-LAN-004863H	Resource Name - LSA-CCT1801-S-1	Site	Historic	AH02	2018 (Riordan Goodwin, LSA)	
P-19-190111		Resource Name - California State Route 66; Other - Route 66; Other - US Highway 66; Other - Foothill Blvd	Structure	Historic	HP37	2010 (Noah M. Stewart, Cal Dept of Transportation)	LA-12023

1066038 update 12/08

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # P36-002910
HRI #
Trinomial
NRHP Status Code: 6Z
Other Listings
Review Code Reviewer Date

*Resource Name or #: US Highway 66 Caltrans Map Reference No.: 1
P1. Other Identifier: US Highway 66 (Route 66)
*P2. Location: *a. County San Bernardino County/Route/Postmile: SBd-66-0.0/4.08
b. Address
City City of Upland Zip 91786
*c. UTM: USGS Quad: Ontario d. UTM:
*e. Other Locational Data (APN #) Road segment located between the Los Angeles/San Bernardino county line and the eastern corporate boundary of the City of Upland

*P3a. Description: (Briefly describe resource below)
This segment of SR-66, locally designated as Foothill Boulevard, runs on an east-west axis through the City of Upland. It is a four lane roadway with either continuous center turn lane, painted median, or raised and landscaped median. There are also landscaped curb islands in areas along the segment where local access is provided parallel to the highway. Shoulders are generally paved, or curbed with sidewalk and/or bike lanes. The road is paved with asphaltic concrete, and has a maximum width of 50 feet from centerline on both sides.

This portion of Foothill Boulevard through the City of Upland is part of the historic alignment of former US Highway 66, which originally ran approximately 2,450 miles from Chicago, Illinois to Santa Monica, California. The Foothill Boulevard portion of this alignment currently runs between Interstate 215 in San Bernardino and State Route 210 in La Verne, a distance of approximately 28.5 miles through the cities of Fontana, Rancho Cucamonga, and Upland. Various portions of this alignment have been previously recorded and evaluated. Photograph 1 shows SR-66 in the vicinity of where it crosses Euclid Ave., and Photograph 2 depicts the west end of the segment near Monte Vista Ave.

*P3b. Resource Attibutes: HP 37 (Highway/Trail)
**P4. Resources Present: ___ Building X Structure ___ Object ___ Site ___ District ___ Elements of District ___ Other

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)

P5b. Description of Photo: Photograph 1, Camera facing west from Euclid Ave., 01/16/07
*P6. Date Constructed/Age: 1913-15
X Historic ___ Prehistoric ___ Both
*P7. Owner and Address: State of California, Department of Transportation
*P8. Recorded by: Andrew M. Walters, Caltrans District 8, San Bernardino, CA
*P9. Date Recorded: January 16, 2007
*P10. Type of Survey: ___ Intensive X Reconnaissance ___ Other Describe:

*P11. Report Citation: Caltrans District 8, Historic Resources Compliance Report (HRCR) for the relinquishment of a portion of State Route 66 within the City Of Upland, San Bernardino County, California, January 2007

*Attachments: ___ NONE ___ Map Sheet X Continuation Sheet X Building, Structure and Object Record
X Linear Resource Record ___ Archaeological Record ___ District Record ___ Milling Station Record ___ Rock Art Record
___ Artifact Record ___ Photograph Record ___ Other (List):

*Required Information.

State of California — The Resources Agency: Primary # P36-002910
DEPARTMENT OF PARKS AND RECREATION HRI#:

BUILDING, STRUCTURE, AND OBJECT RECORD

Map Reference No.: 1

***Resource Identifier:** US Highway 66 ***NRHP Status Code:** 6Z

B1. Historic Name: National Old Trails Highway, US Highway 66, State Route 66

B2. Common Name: Route 66, Foothill Boulevard **County/Route/Postmile:** SBd-66-0.0/4.08

B3. Original Use: Highway **B4. Present Use:** Highway

***B5. Architectural Style:** N/A

***B6. Construction History:** Originally paved in 1913, improved sporadiacally to the present. See B10 Significance

***B7. Moved?** X No ___ Yes ___ Unknown **Date:** ___ **Original Location:** ___

***B8. Related Features** (describe below):
Bridge 54 0013, 54 0038, 54 0039, 54 0040, 54 0313M

B9a. Architect: Unknown **B9b. Builder:** Unknown

***B10. Significance: Theme:** Transportation, Westward Migration, Tourism **Area:** San Bernardino / Los Angeles

Period of Significance: 1914-1972 **Property Type:** Road/Highway **Applicable Criteria:** Criteria A and C

This 4.08 mile segment of SR-66, formerly US Highway 66, does not appear eligible for listing in either the CRHR or NRHP because it does not retain sufficient integrity to convey its historical significance. While this segment of roadway is historically associated with historic US Highway 66, which has been found through previous studies to be significant Under Criteria A and C as the nation's first all-weather highway, its integrity has been severely compromised through sporadic roadway improvements over its lifetime and due to changes to its historic setting. (see Continuation Sheet)

B11. Additional Resource Attributes:

B12. References:
See Continuation Sheet

B13. Remarks:

B14. Evaluator: Andrew M. Walters, Caltrans Principal Architectural Historian, District 8

Date of Evaluation: January 16, 2007

(Sketch Map with north arrow required.)

See Location Map on Continuation Sheet

(This space reserved for official comments.)

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LINEAR FEATURE RECORD

Primary #
HRI#
Trinomial

Resource Identifier: US Highway 66 **Caltrans Map Reference No.:** 1

County/Route/Postmile: SBd-66-0.0/4.08

L1. Historic and/or Common Name: US Highway 66, State Route 66, Route 66

L2a. Portion Described: Entire Resource ___ X Segment ___ Point Observation ___ **Designation:**

b. Location of point or segment: (Provide below UTM coordinates, legal description, other useful locational data. Show the field-inspected area on Location Map)

Road segment of Foothill Boulevard located between the Los Angeles/San Bernardino county line west of Monte Vista Ave. to the west and the eastern corpotate boundary of the City of Upland at Grove Ave.

L3. Description:

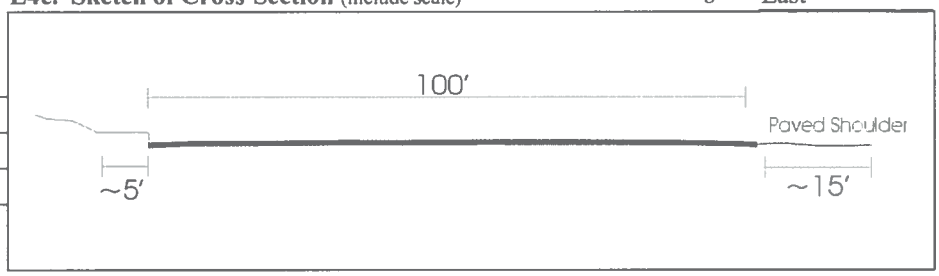
As stated above, this segment of SR-66 (Foothill Boulevard) runs on an east-west axis through the City of Upland. It is a four lane roadway with either continuous center turn lane, painted median, or raised and landscaped medians. The road is paved with asphaltic concrete, and has a maximum width of 50 feet from centerline on both sides.

L4. Dimensions: (In feet for historic, meters for prehistoric resources)

- **a. Top Width:** 100 feet
- **b. Bottom Width:** same
- **c. Height or Depth:** minimal crown
- **d. Length of Segment:** 4.08 miles

L5. Associated Resources: (list below)

L4e. Sketch of Cross-Section (include scale) **Facing:** East



L6. Setting: (briefly describe below)

The setting along this segment of roadway is urban, comprised primarily of a mix of commercial and service establishments. Most of the development at the east end of the segment is modern, while the west end is comprised of a mix of modern and older buildings.

L7. Integrity Considerations: (briefly describe below)

This segment retains integrity of location only. Roadway improvements over the years have compromised integrity of materials, workmanship, and design. Modern urban development along the roadway has comrimised its integrity of setting, feeling, and association.

L8a. Photograph, Map or Drawing

L8b. Description of Photo/Map/ Drawing (View, scale, etc.)

Photograph 2, Camera facing east from Monte Vista Ave. (west end of segment), 01/16/07

L9. Remarks:

L10. Form Prepared by: (Name, affiliation, and address)

Andrew M. Walters
Caltrans District 8
San Bernardino, CA

L11. Date: January 16, 2007

*Required Information

B10. Significance (Continued):

The history of US Highway 66 and Foothill Boulevard has been presented in numerous studies over the years and will only be summarized here. The information presented below was adapted primarily from Paul G Chace and Lauren W Bricker, "Historic Resources Evaluation Report for the Foothill Boulevard Widening in the City of Fontana, San Bernardino County, California" (November 1994), and Christie Hammond, "Historic Resources Compliance Report for Relinquishment of State Route 66 (Foothill Boulevard) Between East Avenue and Maple Avenue, City of Fontana, San Bernardino County, California" (January 2004). For the purposes of the following discussion, US Highway 66 refers to Route 66 generally or as a whole, and State Route 66 refers to the portion of US-66 within California.

Various alignments of Foothill Boulevard have functioned as an important transportation link between the Los Angeles area and communities to the east for over 150 years. Predecessor roads to this portion of the alignment of US Highway 66 date to 1853, when Mormon settlers cut a road from San Bernardino to Los Angeles, known as the San Bernardino Road. During the next forty years, the alignment of the road changed, but by the mid-1910s the current alignment was established. The road remained unpaved until 1913-15, at which time it was incorporated into the National Old Trails Highway. With the adoption of a nationwide numbering system in 1926, US 66 (State Route 9 at the time) was officially designated.

During the first two decades of the twentieth century, American automobile ownership steadily increased as dirt roads were developed into a system of highways. By the 1920s, Americans in general were becoming more mobile and the demand for transportation facilities led to the development of a comprehensive system of local and interstate highways. There were two transcontinental highways of national importance developed during this period, the Lincoln Highway (1912-13), the more northern east-west route, and the Old National Trails Highway (1912-14), a more southerly east-west route.

By the mid-1920s the alignment of the Old National Trails Highway had become part of a comprehensive and uniform system of interstate highways. The eastern and western ends of the National Old Trails Highway followed old trails that were established road segments. In 1926, the National Old Trails Highway was superceded by US Highway 66. Route 66 ran approximately 2,450 miles from Chicago, Illinois to Santa Monica, California, and was the shortest year round route between these destinations. This highway represents an excellent example of the transition from unpaved roads to interstate highways, with Route 66 becoming one of the most well known twentieth century transportation routes in the United States. Development of this highway also led to a surge in establishing businesses and services along Route 66 to meet the needs of travelers. Tourist courts, autocamps, garages, service stations, and diners stimulated local economies for many communities along the route, and became an integral part of its character and mystique. The California portion of US-66 was approximately 300 miles long, almost entirely in San Bernardino County. Prior to the inclusion of this road within the interstate highway system, its western end where the segment under study is located, was the primary means of access between Los Angeles and San Bernardino. For 60 miles Foothill Boulevard follows along the base of the San Gabriel Mountains from Los Angeles to San Bernardino.

The construction history of SR-66 is well documented in Caltrans district files. The Foothill Boulevard portion of the National Old Trails Highway originally had an 18' roadway. Between 1929 and 1931 the roadway was widened to three lanes and paved with asphaltic concrete. Anticipating further widening in the future, a 100-foot R/W was acquired at that time. Thus, by the 1930s, roughly the current right of way of Foothil Boulevard had been acquired. In 1937/1938, a major widening project was undertaken, adding a fourth lane and a center, left-turn lane within the already-acquired right of way. Between the Los Angeles/San Bernardino County line and San Bernardino (the Foothill Boulevard portion of US-66) the existing 30'pavement was widened 16' with treated shoulders between 5' and 17' wide. The roadway was now the longest four-lane highway in the state. Since 1938, other minor and major roadway improvements have occurred.

Through the early 1950s, the portion of SR-66 from the county line through Upland remained predominantly rural. According to USGS mapping and Department of Public Works right of way mapping, land use was comprised predominantly of agricultural (orchards) uses with scattered buildings to the west of Euclid Ave., and mixed agricultural and residential uses to the east. As the population of Upland and its environs increased, commercial and residential development increased to meet the city's needs. From the 1950s onward, the development in the area has steadily grown more dense, and Foothill Boulevard was regularly improved to meet more modern demands. Between the early 1960s and the present, according to Caltrans As-builts, Foothill Boulevard has been

resurfaced numerous times, and has undergone numerous operational improvements including signalization upgrades and improvements to intersections, curb and shoulder improvements, landscaping, and bridge improvements. In general, most of the development alongside SR-66 in the City of Upland is modern, with some scattered older residences and commercial buildings toward the west end of the segment that possibly dates to the 1940s or 1950s.

Since the 1950s Route 66 has gradually been superseded in importance by newer interstate highways. During the 1950s Interstates 40 and 15 (I-40 and I-15) began to replace Route 66 as the main transcontinental highways. In California, SR-66 was superceded primarily by I-40, I-15, I-215 and the Foothill Boulevard portion, between I-215 and State Route 210 (SR-210). As an east-west traffic artery, SR-66 (Foothill Boulevard) has been superceded in importance by Interstate 10 to the south and more recently by SR-210 to the north. In 1985, U. S. Highway 66 was officially removed from the designated U.S. Highways, becoming SR-66. "Historic Route 66" signage was later installed along the Foothill Boulevard segment from LaVerne to San Bernardino. As more traffic diverted from this road to newer routes, the former alignment of SR-66 (Foothill Boulevard) has become a local roadway.

The National Park Service conducted a *Special Resource Study of Route 66* (July 1995) and found Route 66 to be significant as the "nation's first all-weather highway linking Chicago and Los Angeles, with a period of significance from 1933-1970." Although the entire "Route 66" has been found significant, most extant segments of the transcontinental highway have not been formally evaluated to determine their eligibility for listing in the NRHP.

Another, more recent study conducted for the US Department of the Interior, "Life in the Past Lane: The Route 66 Experience" (October 2005), provides an analysis of SR 66 specific to California. This study expands on the NPS study, concluding that Route 66 is eligible for the NRHP under Criteria A and C (with individual portions possibly also eligible under Criteria B and D), and that in California, its period of significance should be extended to include the period 1914 and 1972, coinciding with its designation as part of the National Old Trails Highway (1914) and when much of its route was superceded by US 40 (1972).

As a major transportation corridor from Chicago to Los Angeles between 1926 and the early 1960s, Route 66 has been credited with major social, economic, and cultural impacts on the local, state, and national levels. Route 66 was the shortest route from Chicago to Los Angeles and the highway played an important role in the migration of large segments of the population living in the northeast and Midwest to the southwest and California from the 1930s through the 1950s. Route 66 was also of national importance for the military during war and peacetime mobilization of troops and supplies. The character of Route 66 and its importance as a transportation corridor was superseded in the 1950s with the federally funded interstate system. Many segments of Route 66 became state and county roads or were completely abandoned. However, the fascination with the road has not diminished since its beginnings in 1926. Route 66 symbolized freedom and mobility for the many Americans, who could afford to own an automobile. With so many travelers utilizing Route 66, tourism became an important economic base for the many small towns along the highway. Today, new generations want to experience what remains of the "Mother Road" and American cultural phenomenon has grown out of the continued interest in Route 66.

While the overall historical significance of SR 66 has been firmly established, the 4.08-mile segment evaluated here has lost most of the important elements of historic integrity from its period of significance (1914-1972) and does not contribute to the overall significance of historic Route 66 at the national, state, or local level. Better preserved segments of this historic highway exist elsewhere. For example, a .88-mile segment of SR-66 located east of Upland between Hemlock Avenue (PM 13.08) and Almira Avenue (PM 13.96) was determined eligible for the NRHP in 2004 under Criterion A. Unlike the Upland segment evaluted here, this segment in the City of Fontana retains sufficient integrity to convey its significance. Many of the commercial and residential buildings and roadside landscape features along the segment date to its period of significance, including an associated bridge (Malaga Underpass) and pumping station.

The segment of SR-66 through the city limits of Upland in contrast, retains integrity of location only. As indicated above, roadway improvements over the years have compromised its integrity of materials, workmanship, and design. The road surface has been paved over numerous times, most recently in 2001, and all the major intersections have been improved since the 1960s. Thus, this portion of SR-66 appears as a modern roadway. In addition, modern urban development along the roadway has compromised its integrity of setting, feeling, and association. In general terms, modern buildings that appear to have been constructed within the last 30 years front the roadway with modern sidewalks, curbs and landscaping over most of the 4.08-mile segment of road that is the subject of this study. While this modern development is interspersed with some older commercial and residential buildings along

the western one third of this segment, the general character of the area is overwhelming modern and urban.

In sum, while Route 66 has been found eligible for the NRHP under Criteria A and C, the 4.08-mile segment evaluated here does not appear eligible as a contributing element to this historic property because it lacks integrity, and would not contribute to the eligibility of the whole resource if it were ever evaluated. This segment of roadway, therefore, is also not eligible for the CRHR and is not a historical resource for the purposes of CEQA.

B12. References:

Chace, Paul G., and Lauren W. Bricker, "Historic Property Clearance Report for the Foothill Boulevard Widening in the City of Fontana, San Bernardino County, California" 08-SBd-66-PM 10.7/13.2, November 1994.

Caltrans District 8 Map Files and As-built records.

Hammond, Christie, "Historic Resources Compliance Report for Relinquishment of State Route 66 (Foothill Boulevard) Between East Avenue and Maple Avenue, City of Fontana, San Bernardino County, California" 08-SBd-66-KP 17.49/27.58 (PM 10.87/17.14), January 2004.

National Park Service, " Special Resource Study of Route 66," July 1995. Available online at the National Park Service Route 66 Corridor Preservation Program website at http://www.cr.nps.gov/rt66/HistSig/index.htm.

US Department of the Interior, "Life in the Past Lane, The Route 66 Experience: Historic and Management Contexts for the Route 66 Corridor in California," prepared by Matt Bischoff, Statistical Research, Inc.,October 2005.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #: P36-002910
HRI #/Trinomial

CONTINUATION SHEET

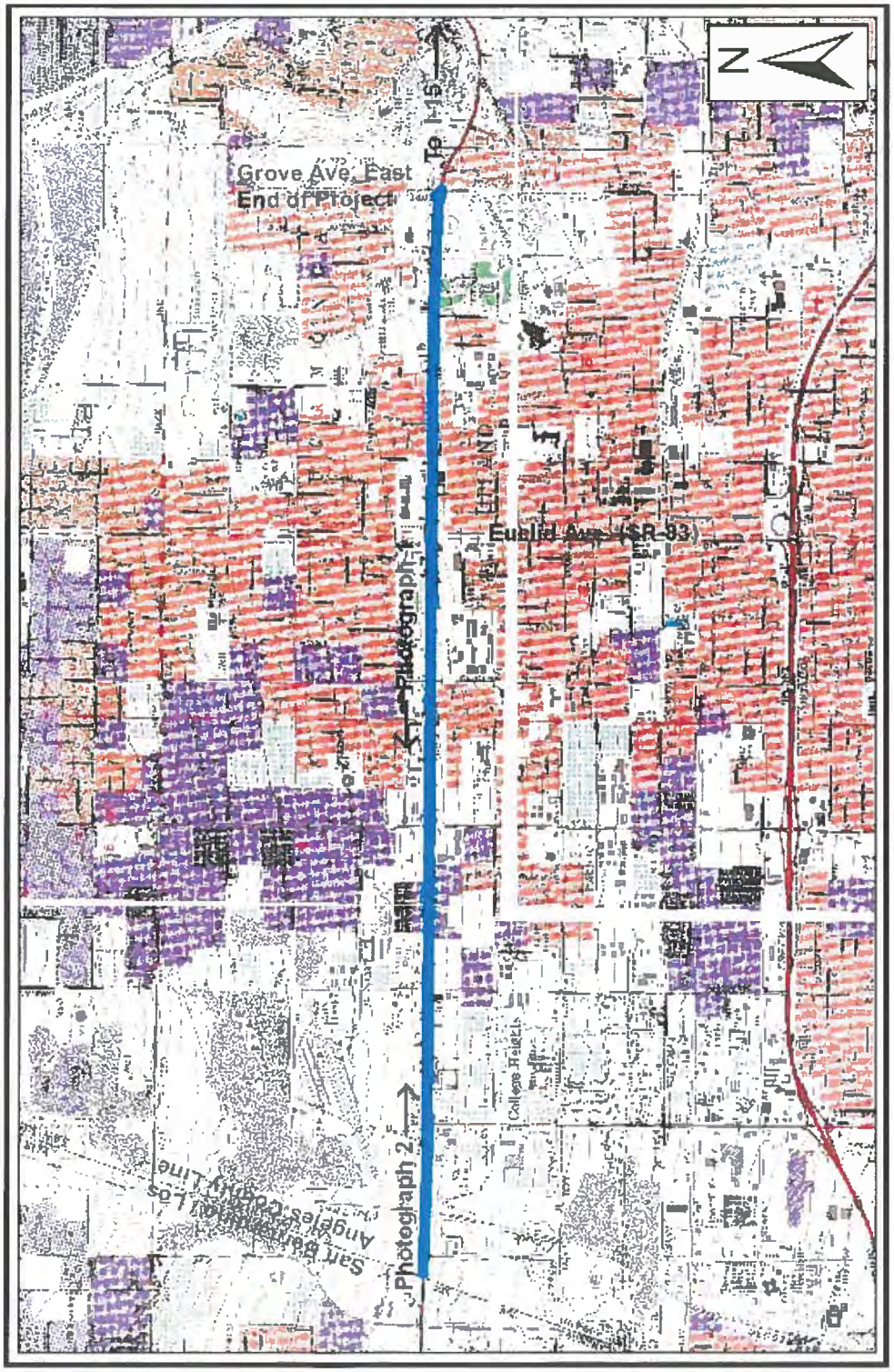
X Continuation ___ Update

Caltrans Map Reference No.: 1

Resource Identifier: US Highway 66

County/Route/Postmile: SBd-66-0.0/4.08

Location Map



*Required Information

GEOTECHNICAL INVESTIGATION
PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

1750-1780 West Foothill Boulevard
Upland, California
for
Magellan Value Partners, LLC

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

February 12, 2021

Magellan Value Partners, LLC
1900 Avenue of the Stars, Suite 2470
Los Angeles, California 90067

Attention: Mr. Somy Mukherjee
Managing Director

Project No.: 21G111-1

Subject: Geotechnical Investigation
Proposed Commercial/Industrial Development
1750-1780 West Foothill Boulevard
Upland, California

Reference: Geotechnical Investigation, Proposed Warehouse, 1780 West Foothill Boulevard, Upland, California, prepared by Southern California Geotechnical (SCG) for Oakmont Industrial Group, SCG Project No. 19G216-1, dated October 23, 2019.

Gentlemen:

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

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

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Ricardo Frias, RCE 91772
Staff Engineer

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Distribution: (1) Addressee

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A Plate 1: Site Location Map
Plate 2: Trench Location Plan
B Trench Logs
C Laboratory Test Results
D Grading Guide Specifications
E Seismic Design Parameters
F Excerpts from Previous Study

1.0 EXECUTIVE SUMMARY

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

Site Preparation Recommendations

- Demolition of the existing developments, including foundations, floor slabs, pavements, concrete flatwork, septic tanks and any subsurface improvements which will not be utilized as part of the new development, will be required. Debris resulting from demolition activities should be disposed of off-site in accordance with local regulations. Alternatively, concrete and asphalt debris may be crushed to a maximum 2-inch particle size, mixed with the on-site soils, and reused as compacted structural fill.
- Initial site preparation should also include stripping of the existing vegetation which consists of some areas of sparse native grass and weeds throughout the site. These materials should be properly disposed of off-site.
- The subsurface conditions encountered at the trench locations generally consist of a surficial layer of fill soils underlain by native alluvium. The fill soils extend to depths of 2 to 7½± feet at the trench locations. No documentation regarding the placement or compaction of the fill soils is available, and they are therefore considered to represent undocumented fill. These soils are not considered suitable to support the foundation loads of the new structure.
- Remedial grading is recommended within the proposed building area in order to remove the existing undocumented fill soils, which extend to depths of 2 to 7½± feet at the trench locations. It is also recommended that the proposed building pad areas be overexcavated to a depth of at least 3 feet below existing grade and to a depth of at least 3 feet below proposed pad grades, whichever is deeper. Overexcavation within the new foundation areas is recommended to extend to a depth of at least 3 feet below proposed foundation bearing grade.
- The plan indicates that the proposed northern building wall of the proposed retail building will be constructed in a zero-lot-line-condition. Based on this condition, the full lateral extent of overexcavation will not be feasible in the vicinity of this area. Specialized grading techniques, such as A-B-C slot cuts, in conjunction with a reduced bearing pressure for the affected foundations within these areas will be required.
- After overexcavation has been completed, the resulting subgrade soils should be evaluated by the geotechnical engineer to identify any additional soils that should be overexcavated. The resulting soils should be scarified and thoroughly flooded to achieve a moisture content of 0 to 4 percent above optimum moisture, to a depth of at least 12 inches. The overexcavation subgrade soils should then be recompacted under the observation of the geotechnical engineer. The previously excavated soils may then be replaced as compacted structural fill.
- The new pavement and flatwork subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.
- The near-surface soils, especially those present below the exiting fill materials, contain significant amounts of oversized materials, including cobbles and boulders. Where grading

will require excavation into these materials, consideration should be given to using selective grading techniques to remove the cobbles and/or boulders from these soils prior to reuse as fill.

Building Foundation Recommendations

- Spread footing foundations, supported in newly placed structural fill soils.
- Maximum, net allowable soil bearing pressure: 3,000 lbs/ft^2.
- Reinforcement consisting of at least two (2) No. 5 rebars (1 top and 1 bottom) in strip footings. Additional reinforcement may be necessary for structural considerations.

Building Floor Slab Recommendations

- Conventional Slab on Grade, at least 6 inches thick
- Modulus of Subgrade Reaction: k = 150 psi/in
- Reinforcement is not considered to be necessary for geotechnical considerations.
- The actual thickness and reinforcement of the floor slab should be determined by the structural engineer

Pavements

ASPHALT PAVEMENTS (R = 60)					
Materials	Thickness (inches)				
	Parking Stalls (TI = 4.0)	Auto Drive Lanes (TI = 5.0)	Truck Traffic		
			(TI = 6.0)	(TI = 7.0)	(TI = 8.0)
Asphalt Concrete	3	3	3½	4	5
Aggregate Base	3	3	3	3	3
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 60)				
Materials	Thickness (inches)			
	Automobile Parking and Drive Areas (TI=4.0 & 5.0)	Truck Traffic		
		(TI =6.0)	(TI =7.0)	(TI =8.0)
PCC	5	5	5	6½
Compacted Subgrade (95% minimum compaction)	12	12	12	12

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Proposal No. 21P126, dated January 25, 2021. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slabs, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The subject site is located on the south side of West Foothill Boulevard, 950± feet west of the intersection of West Foothill Boulevard and North Benson Avenue in Upland, California. The site is bounded to the north by West Foothill Boulevard, to the east by automotive repair shops/buildings, to the south by an industrial building, and to the west by a truck/trailer storage yard.

The subject site consists of several parcels which total 6.06± acres in size. The southwestern parcel is presently developed with eight (8) buildings. Six (6) of the buildings are located along the western property line and share common walls. These buildings range from 1,200 to 2,400± ft² in size. One building is located along the southern property line and is approximately 4,400 ft² in size. The last building is located in the northern portion of the southwest parcel and is approximately 1,200 ft² in size. A metal canopy is located in the central area of the southwest parcel. The buildings are assumed to be of concrete tilt-up construction, supported on conventional shallow foundations with concrete slab-on-grade floors. The ground surface cover surrounding the buildings consists of Portland cement concrete pavements. The ground surface cover in the northwestern parcel consists of asphaltic concrete pavements that are in poor condition, with severe cracking throughout. The remaining areas of the site are vacant and undeveloped. The ground surface cover in the eastern parcels consists of exposed soil with sparse native grass and weed growth. A soil berm 3± feet in height is located along the eastern portion of the south property line.

Detailed topographic information was not available at the time of this report. However, based on topographic information obtained from Google Earth, the site topography ranges from 1350± feet mean sea level (msl) in the northern area of the site to 1331± feet msl in the southern area of the site. Overall site topography slopes gently to the south at a gradient of 3± percent. The berm in the southeastern portion of the site slopes to the east at a gradient of 8± percent.

3.2 Proposed Development

A conceptual site plan for the proposed development was provided by the client to our office. Based on the site plan, the site will be developed with three (3) new buildings. A retail building will be located in the northern-most portion of the site and will possess a building footprint of 40,807± ft^2. The new retail building will be located in a zero-lot-line condition along the north property line. Two commercial/industrial buildings, identified as Buildings 1 and 2, will be constructed within the central and southern portions of the site. Building 1 will be 48,007± ft^2 in size and Building 2 will be 45,645± ft^2 in size. The smaller of the two commercial/industrial buildings will be located in the southern portion of the site. The commercial/industrial buildings will be constructed with dock-high doors located along a portion of one building wall. The buildings will be surrounded by asphaltic concrete pavements for parking and drive lanes and

Portland cement concrete pavements for the loading dock areas. Limited areas of landscape planters and concrete flatwork will be included throughout the site.

Detailed structural information has not been provided. It is assumed that the new buildings will be single-story structures of tilt-up concrete construction, typically supported on conventional shallow foundation systems with concrete slab-on-grade floors. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 100 kips and 4 to 6 kips per linear foot, respectively.

Grading plans for the proposed development were not available at the time of this report. The proposed development is not expected to include any significant amounts of below-grade construction such as basements or crawl spaces.

3.3 Previous Study

Southern California Geotechnical, Inc. previously performed a geotechnical investigation at the subject site, previously referenced. As part of this investigation, subsurface exploration was performed including four (4) borings (identified as B-1 through B-4) advanced to depths of 2 to 15± feet. Three (3) of the borings were terminated at depths shallower than planned due to refusal on very dense cobbles. In addition to the borings, four (4) exploratory trenches (identified as T-1 through T-4) were advanced to depths of 5½ to 10½± feet below the existing site grades. Asphaltic concrete pavements, 3± inches thick, were present at the ground surface of Boring No. B-1. Portland cement concrete pavements, 7± inches thick, were present at the ground surface of Boring No. B-3. Artificial fill soils were encountered beneath the pavements at Boring No. B-1, at the ground surface of Boring No. B-4, and at all of the trench locations, extending to depths of 1½ to 5± feet below the existing site grades. The fill soils generally consist of medium dense to very dense silty fine sands with varying medium to coarse sand and fine to coarse gravel content with occasional cobbles and boulders. The fill soils possess a disturbed appearance and some samples contain debris, such as brick fragments, rebar, and plastic, resulting in their classification as artificial fill. Soils classified as possible fill were encountered beneath the PCC pavements at Boring No. B-3, and beneath the artificial fill soils at Boring No. B-4, extending to depths of 2 to 5½± feet below existing site grades. These materials generally consist of gravelly fine to coarse sands, with varying silt content and occasional cobbles. The materials resemble the underlying native alluvium, but possess a somewhat disturbed appearance, resulting in their classification as possible fill. Boring No. B-3 was terminated within the possible fill soils, at a depth of 2± feet, due to refusal on very dense cobbles. Native alluvial soils were encountered at the ground surface of Boring No. B-2, and below the artificial fill and possible fill soils at all of the remaining boring and trench locations, with the exception of Boring No. B-3, extending to at least the maximum depth explored of 15± feet below existing site grades. The alluvium generally consists of dense to very dense gravelly fine to coarse sands, with occasional to abundant cobbles and boulders. Free water was not encountered within any of the boring and trenches. Based on the lack of any water within the borings and trenches and the moisture contents of the recovered soil samples, the static groundwater is considered to have existed at a depth in excess of 15± feet at the time of the subsurface exploration.

Based upon the conditions at the boring locations, SCG recommended that the building pad area be overexcavated in order to remove the existing fill soils and the upper portion of the

near-surface native alluvium. SCG also recommended that the existing soils within the building pad area be overexcavated to a depth of at least 3 feet below existing grades and to a depth of at least 3 feet below proposed pad grades, whichever was greater. Removals were also recommended to extend to a depth of at least 3 feet below proposed bearing grades within the foundation influence zones. Recommendations for the design and construction of shallow foundations with a concrete slab-on-grade floor were provided in the referenced report. Foundations were recommended to be designed for a maximum allowable soil bearing pressure of 3,000 lbs/ft^2.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of three (3) exploratory trenches excavated to depths of 10 to 13± feet below existing site grades. One (1) of the trenches was terminated at a depth shallower than planned due to refusal on very dense cobbles. All of the trenches were logged during excavation by a member of our staff.

The trenches were excavated using a rubber tire backhoe with a 24-inch-wide bucket. Due to the extensive presence of gravel and cobbles, obtaining undisturbed soil samples was not considered feasible. Representative bulk soil samples were taken during excavation. The bulk samples were collected in plastic bags and sealed to preserve their original moisture content. The samples were then transported to our laboratory for testing.

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

4.2 Geotechnical Conditions

Artificial Fill

Artificial fill soils were encountered at the ground surface at all of the trench locations, extending to depths of 2 to 7½± feet below the existing site grades. The fill soils generally consist of loose to dense silty fine to coarse sands with varying fine to coarse gravel content with occasional to abundant cobbles and boulders. The fill soils possess a disturbed appearance and some samples contain debris, such as brick fragments, rebar, and plastic, resulting in their classification as artificial fill.

Alluvium

Native alluvial soils were encountered below the artificial fill soils at all of the trench locations, extending to at least the maximum depth explored of 13± feet below existing site grades. The alluvium generally consists of dense to very dense gravelly fine to coarse sands and fine to coarse sands, with occasional to abundant cobbles.

Groundwater

Free water was not encountered within any of the trenches. Based on the lack of any water within the trenches and the moisture contents of the recovered soil samples, the static

groundwater is considered to have existed at a depth in excess of 13± feet at the time of the subsurface exploration.

As part of our research, we also reviewed recent groundwater data available within the vicinity of the site. The primary reference used to determine the groundwater depths in this area is the California Department of Water Resources website, http://wdl.water.ca.gov/waterdatalibrary/. The nearest monitoring well in this database is located approximately 7181± feet northwest of the site. Water level readings within this monitoring well indicates a high groundwater level of 203± feet in October 6, 2020.

5.0 LABORATORY TESTING

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

Classification

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

Moisture Content

The moisture contents have been determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Maximum Dry Density and Optimum Moisture Content

One representative bulk sample has been tested for its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per ASTM D-1557 and are presented on Plate C-1 in Appendix C of this report. This test is generally used to compare the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date. The results of maximum dry density and optimum moisture content testing performed during the referenced geotechnical investigation are included in Appendix F of this report.

Soluble Sulfates

Sulfate testing was performed as part of the previous studies, and these results are included in the table below. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes into contact with these soils.

Sample Identification	Soluble Sulfates (%)	Sulfate Classification
B-1 @ 0 to 5 feet (from previous study SCG Job No. 19G216-1)	<0.001	Not Applicable (S0)

A representative sample of the near-surface soil was submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. The result of the soluble sulfate testing is not yet available. This result, along with recommendations for any appropriate sulfate-resistant concrete mix designs will be presented in an addendum report, the pending results are also anticipated to reflect a class S0.

Corrosivity Testing

A representative bulk sample of the near-surface soils was submitted to a subcontracted corrosion engineering laboratory to determine if the near-surface soils possess corrosive characteristics with respect to common construction materials. The corrosivity testing included a determination of the electrical resistivity, pH, and chloride concentrations of the soils, as well as other tests. The results of these tests are not yet available. These results, along with any appropriate corrosion protection recommendations will be presented in an addendum report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

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

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

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

6.1 Seismic Design Considerations

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

Faulting and Seismicity

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

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

Seismic Design Parameters

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

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

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

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

2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped MCE_R Acceleration at 0.2 sec Period	S_S	1.694
Mapped MCE_R Acceleration at 1.0 sec Period	S_1	0.637
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.694
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.083
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.129
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.722

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

Liquefaction

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

The California Geological Survey (CGS) has not yet conducted detailed seismic hazards mapping in the area of the subject site. The general liquefaction susceptibility of the site was determined by research of the San Bernardino County Official Land Use Plan, General Plan, Geologic Hazard Overlay. Map FH27-C for the Ontario Quadrangle indicates that the subject site is not located within an area of liquefaction susceptibility. Based on the mapping performed by the county of San Bernardino and the subsurface conditions encountered at the boring and trench locations, liquefaction is not considered to be a design concern for this project.

6.2 Geotechnical Design Considerations

General

The overall site is underlain by artificial fill soils, extending to depths of 2 to 7½± feet below the existing site grades. No documentation regarding the placement or compaction of these fill soils has been provided nor is expected to be available. The existing fill soils, in their present condition, are not considered suitable to support the foundations loads of new structures. Below these materials, the alluvium consists of high strength, dense to very dense well-graded sands and gravelly sands, with occasional to extensive cobbles and boulders. Therefore, remedial grading is recommended within the proposed building areas in order to remove the artificial fill materials, and replace these materials as compacted structural fill.

The site plan indicates that the proposed northern building perimeter wall of the proposed retail building will be constructed in a zero-lot-line-condition. Based on this condition, the full lateral extent of overexcavation will not be feasible in the vicinity of this area. Specialized grading techniques within the proposed northern building perimeter wall are discussed further in a subsequent section of this report.

Most of the near-surface soils encountered at the trench locations possess occasional to extensive cobbles and boulders. Recommendations for the handling and placement of oversized materials are presented in Section 6.3 of this report.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils and a portion of the near-surface native alluvium soils and replace these materials as compacted structural fill. The native alluvium soils that will remain in place below the recommended depth of overexcavation will not be subject to significant stress increases from the foundations of the new structures. Therefore, following completion of the recommended grading, post-construction settlements are expected to be within tolerable limits.

Expansion

The near-surface soils generally consist of sands, gravelly sands, and silty sands with no appreciable clay content. These materials have been visually classified as non-expansive. Therefore, no design considerations related to expansive soils are considered warranted for this site.

Shrinkage/Subsidence

Removal and recompaction of the artificial fill and near-surface native soils is estimated to result in an average shrinkage of 6 to 14 percent. The shrinkage potential of the different soil strata at the site is expected to vary significantly due to the highly variable cobble and boulder content. It should be noted that this shrinkage estimate is based on our experience with similar projects in the area since collecting small-diameter soil samples was not feasible due to the presence of cobbles and boulders. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Minor ground subsidence is expected to occur in the soils below the zone of removal due to settlement and machinery working. The subsidence is estimated to be 0.1 feet. This estimate is based on previous experience and the subsurface conditions encountered at the test boring and trench locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely. Additionally, volume loss due to removal of oversized rock materials is difficult to assess precisely.

Grading and Foundation Plan Review

No grading or foundation plans were available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

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

Site Stripping and Demolition

Demolition of the existing buildings, pavements, and any associated improvements will be necessary to facilitate the proposed development site. Demolition of the existing structures should include all foundations, floor slabs, and any associated utilities. Any septic systems encountered during demolition and/or grading (if present) should be removed in their entirety. Any associated leach fields or other existing underground improvements should also be removed in their entirety. All applicable federal, state and local specifications and regulations should be followed in demolition, abandonment, and disposal of the existing structures and resulting debris.

Initial site stripping should include removal of the surficial vegetation from the site. Stripping should include the sparse native grass and weeds. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

Treatment of Existing Soils: Building Pad

Remedial grading will be necessary within the proposed building pad areas to remove the existing undocumented fill soils and the upper portion of the near surface native alluvial soils. The fill soils extend to depths of 2 to 7½± feet at the trench locations. As discussed above, these materials are considered to represent undocumented fill. The existing fill soils should be removed in their entirety. In addition, the overexcavation is recommended to extend to a depth of at least 3 feet below existing grade and 3 feet below proposed building pad subgrade elevations, whichever is greater. Within the influence zones of the new foundations, the overexcavation should extend to a depth of at least 3 feet below proposed foundation bearing grade.

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

The proposed retail building will be constructed in a zero-lot-line-condition along the northern property line. Therefore, the full lateral extent of overexcavation will not be feasible in the vicinity of this area. The contractor should take necessary precautions to protect the existing city sidewalk during rough grading operations. Specialized grading techniques, such as A-B-C slot cuts, will likely be required during rough grading procedures. The newly exposed overexcavation subgrade soils for each slot are to be evaluated and approved for filling by SCG

prior to placement of structural fill. The remainder of the building pad area may be overexcavated using conventional grading techniques.

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

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches and thoroughly flooded to achieve a moisture content of 0 to 4 percent above optimum moisture content. The subgrade soils should then be recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The building pad areas may then be raised to grade with previously excavated soils or imported structural fill.

Treatment of Existing Soils: Retaining Walls and Site Walls

The existing soils within the areas of proposed retaining and non-retaining site walls should be overexcavated to a depth of at least 3 feet below foundation bearing grade and replaced as compacted structural fill as discussed above for the proposed building pads. Any undocumented fill soils within the foundation areas should be removed in their entirety. The overexcavation areas should extend horizontally beyond the foundation perimeters to a distance equal to the depth of fill below the new foundations. These overexcavation recommendations also apply to any erection pads for tilt-up concrete walls, since these pads are part of the foundation system. The overexcavation subgrade soils should be evaluated by the geotechnical engineer prior to scarifying, moisture conditioning, and recompacting the upper 12 inches of exposed subgrade soils, as discussed for the building areas. The previously excavated soils may then be replaced as compacted structural fill.

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

Treatment of Existing Soils: Parking and Drive Areas

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

Subgrade preparation in the new parking and drive areas should initially consist of removal of all soils disturbed during stripping and demolition operations. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to 0 to 4 percent above optimum, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of undocumented fill soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

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

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to within 0 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer. The near-surface soils, especially those present beneath the existing fill materials, possess significant quantities of oversized material, including cobbles and boulders. Some sorting and/or crushing of these materials may be required to generate soils that are suitable for reuse as compacted structural fill.
- All grading and fill placement activities should be completed in accordance with the requirements of the 2019 CBC and the grading code of the city of Upland.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Selective Grading and Oversized Material Placement

The existing soils possess significant cobble and/or boulder content. It is expected that large scrapers (Caterpillar 657 or equivalent) will be adequate to move the cobble containing soils as well as some of the soils containing smaller boulders. However, some larger boulders (2± feet in size) were also encountered at the trench locations. It will likely be necessary to move such larger boulders individually, and place them as oversized materials in accordance with the Grading Guide Specifications, in Appendix D of this report. Based on observations during our subsurface exploration activities, the on-site soils possessed approximately 25 to 40% cobble content and approximately 20 to 35% boulder content.

Since the proposed grading will require excavation of cobble and boulder containing soils, it may be desirable to selectively grade the proposed building pad areas. The presence of particles greater than 3 inches in diameter within the upper 1 to 3 feet of the building pad subgrades will impact the utility and foundation excavations. Depending on the depths of fills required within the proposed parking areas, it may be feasible to sort the on-site soils, placing the materials greater than 3 inches in diameter within the lower depths of the fills, and limiting the upper 1 to 3 feet of soils to materials less than 3 inches in size. Oversized materials could

also be placed within the lower depths of the recommended overexcavations. In order to achieve this grading, it would likely be necessary to use rock buckets and/or rock sieves to separate the oversized materials from the remaining soil. Although such selective grading will facilitate further construction activities, it is not considered mandatory and a suitable subgrade could be achieved without such extensive sorting. However, in any case, it is recommended that all materials greater than 6 inches in size be excluded from the upper 1 foot of the surface of any compacted fills.

The placement of any oversized materials should be performed in accordance with the Grading Guide Specifications included in Appendix D of this report. If disposal of oversized materials is required, rock blankets or windrows should be used and such areas should be observed during construction and placement by a representative of the geotechnical engineer.

Imported Structural Fill

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

Utility Trench Backfill

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

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

Any soils used to backfill voids around subsurface utility structures, such as manholes or vaults, should be placed as compacted structural fill. If it is not practical to place compacted fill in these areas, then such void spaces may be backfilled with lean concrete slurry. Uncompacted pea gravel or sand is not recommended for backfilling these voids since these materials have a potential to settle and thereby cause distress of pavements placed around these subterranean structures.

6.4 Construction Considerations

Excavation Considerations

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

Slot Cutting Recommendations

As discussed in the previous section of this report, the proposed retail building will be constructed in a zero-lot-line-condition along the northern property line. The full lateral extent of overexcavation will not be feasible in the vicinity of this area. Excavation operations within this area should be performed in order to prevent the undermining of the subgrade soils of the existing city sidewalk adjacent to the subject site. Therefore, depending upon the subsurface conditions encountered during remedial grading procedures, slot cutting is likely to be necessary.

Slot cuts are anticipated to be no wider than approximately 6 feet along the property line. The length of these trenches (in the direction perpendicular to the property line) are anticipated to be a minimum of 3 feet and equal to the depth of the overexcavation, whichever is greater. The slot cuts are anticipated to be extended to a depth equal to the proposed bottom of overexcavation for the proposed buildings. Following removals, the resulting subgrades should be evaluated by a representative of the geotechnical engineer prior placement of compacted structural fill. The excavated trenches should then be backfilled to planned grade using compacted structural fill. The remaining areas of the building pad may then be overexcavated using conventional grading techniques. It should be noted that shoring may also be required, and that detailed shoring recommendations will be provided upon the review of the final grading plans.

Groundwater

The static groundwater table at this site is considered to exist at a depth greater than 13± feet. Therefore, groundwater is not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pads will be underlain by structural fill soils used to replace existing undocumented fill soils and the upper portion of the near-surface native alluvium. These new structural fill soils are expected to extend to depths of at least 3 feet below proposed foundation bearing grades. Based on this

subsurface profile, the proposed structures may be supported on conventional shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 3,000 lbs/ft^2.
- Minimum wall/column footing width: 14 inches/24 inches.
- Minimum longitudinal steel reinforcement within strip footings: Two (2) No. 5 rebars (1 top and 1 bottom).
- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 18 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.
- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressure presented above may be increased by one-third when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on geotechnical considerations; additional reinforcement may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

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

The foundation subgrade soils should also be properly moisture conditioned to 0 to 4 percent above the Modified Proctor optimum, to a depth of at least 12 inches below bearing grade. Since it is typically not feasible to increase the moisture content of the floor slab and foundation subgrade soils once rough grading has been completed, care should be taken to maintain the moisture content of the building pad subgrade soils throughout the construction process.

Estimated Foundation Settlements

Post-construction total and differential settlements of shallow foundations designed and constructed in accordance with the previously presented recommendations are estimated to be

less than 1.0 and 0.5 inches, respectively. Differential movements are expected to occur over a 60-foot span, thereby resulting in an angular distortion of less than 0.002 inches per inch.

Lateral Load Resistance

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

- Passive Earth Pressure: 350 lbs/ft^3
- Friction Coefficient: 0.35

These are allowable values, and include a factor of safety. When combining friction and passive resistance, the passive pressure component should be reduced by one-third. These values assume that footings will be poured directly against compacted structural fill. The maximum allowable passive pressure is 3,000 lbs/ft^2.

6.6 Floor Slab Design and Construction

Subgrades which will support the new floor slabs should be prepared in accordance with the recommendations contained in the *Site Grading Recommendations* section of this report. Based on the anticipated grading which will occur at this site, the floors of the new structures may be constructed as conventional slabs-on-grade, supported on newly placed structural fill soils. These fill soils are expected to extend to a depth of at least 3 feet below finished pad grades. Based on geotechnical considerations, the floor slabs may be designed as follows:

- Minimum slab thickness: 6 inches.

- Modulus of Subgrade Reaction: k = 150 psi/in

- Minimum slab reinforcement: Reinforcement is not required for geotechnical conditions. The actual floor slab reinforcement should be determined by the structural engineer, based upon the imposed loading.

- Slab underlayment: If moisture sensitive floor coverings will be used the minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire area where such moisture sensitive floor coverings are anticipated. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as 15-mil Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview.

- Moisture condition the floor slab subgrade soils to 0 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the

floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.

- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slabs should be completed by the structural engineer to verify adequate thickness and reinforcement.

6.7 Retaining Wall Design and Construction

Small retaining walls are expected to be necessary in the area of the new truck loading docks and may also be required to facilitate the new site grades. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the trench locations, the following parameters may be used in the design of new retaining walls for this site. We have provided parameters assuming the use of on-site soils for retaining wall backfill. The on-site soils generally consist of silty sands, gravelly sands, and sands with varying gravel content. Based on their classification, these materials are expected to possess a friction angle of at least 32 degrees when compacted to 90 percent of the ASTM-1557 maximum dry density.

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

RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type On-Site Silty Sands and Sands
Internal Friction Angle (ϕ)		32°
Unit Weight		131 lbs/ft^3
Equivalent Fluid Pressure:	Active Condition (level backfill)	40 lbs/ft^3
	Active Condition (2h:1v backfill)	62 lbs/ft^3
	At-Rest Condition (level backfill)	62 lbs/ft^3

The walls should be designed using a soil-footing coefficient of friction of 0.35 and an equivalent passive pressure of 350 lbs/ft^3. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

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

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

Retaining Wall Foundation Design

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

Seismic Lateral Earth Pressures

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

Backfill Material

On-site soils may be used to backfill the retaining walls. However, all backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

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

All retaining wall backfill should be placed and compacted under engineering- controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557-91). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

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

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.

- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

6.8 Pavement Design Parameters

Site preparation in the pavement area should be completed as previously recommended in the *Site Grading Recommendations* section of this report. The subsequent pavement recommendations assume proper drainage and construction monitoring, and are based on either PCA or CALTRANS design parameters for a twenty (20) year design period. However, these designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The on-site soils generally consist of silty sands and sands. Based on their classification, these materials are expected to possess excellent pavement support characteristics, with estimated R-values greater than 60. Since R-value testing was not included in the scope of services for this project, the subsequent pavement design is based upon an assumed R-value of 60. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It is recommended that R-value testing be performed after completion of rough grading.

Asphaltic Concrete

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

approximate daily traffic volumes over a 20 year design life, assuming six operational traffic days per week.

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

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

ASPHALT PAVEMENTS (R = 60)					
Materials	Thickness (inches)				
	Parking Stalls (TI = 4.0)	Auto Drive Lanes (TI = 5.0)	Truck Traffic		
			(TI = 6.0)	(TI = 7.0)	(TI = 8.0)
Asphalt Concrete	3	3	3½	4	5
Aggregate Base	3	3	3	3	3
Compacted Subgrade	12	12	12	12	12

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

Portland Cement Concrete

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

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 60)				
Materials	Thickness (inches)			
	Automobile Parking and Drive Areas (TI=4.0 & 5.0)	Truck Traffic		
		(TI =6.0)	(TI =7.0)	(TI =8.0)
PCC	5	5	5	6½
Compacted Subgrade (95% minimum compaction)	12	12	12	12

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

7.0 GENERAL COMMENTS

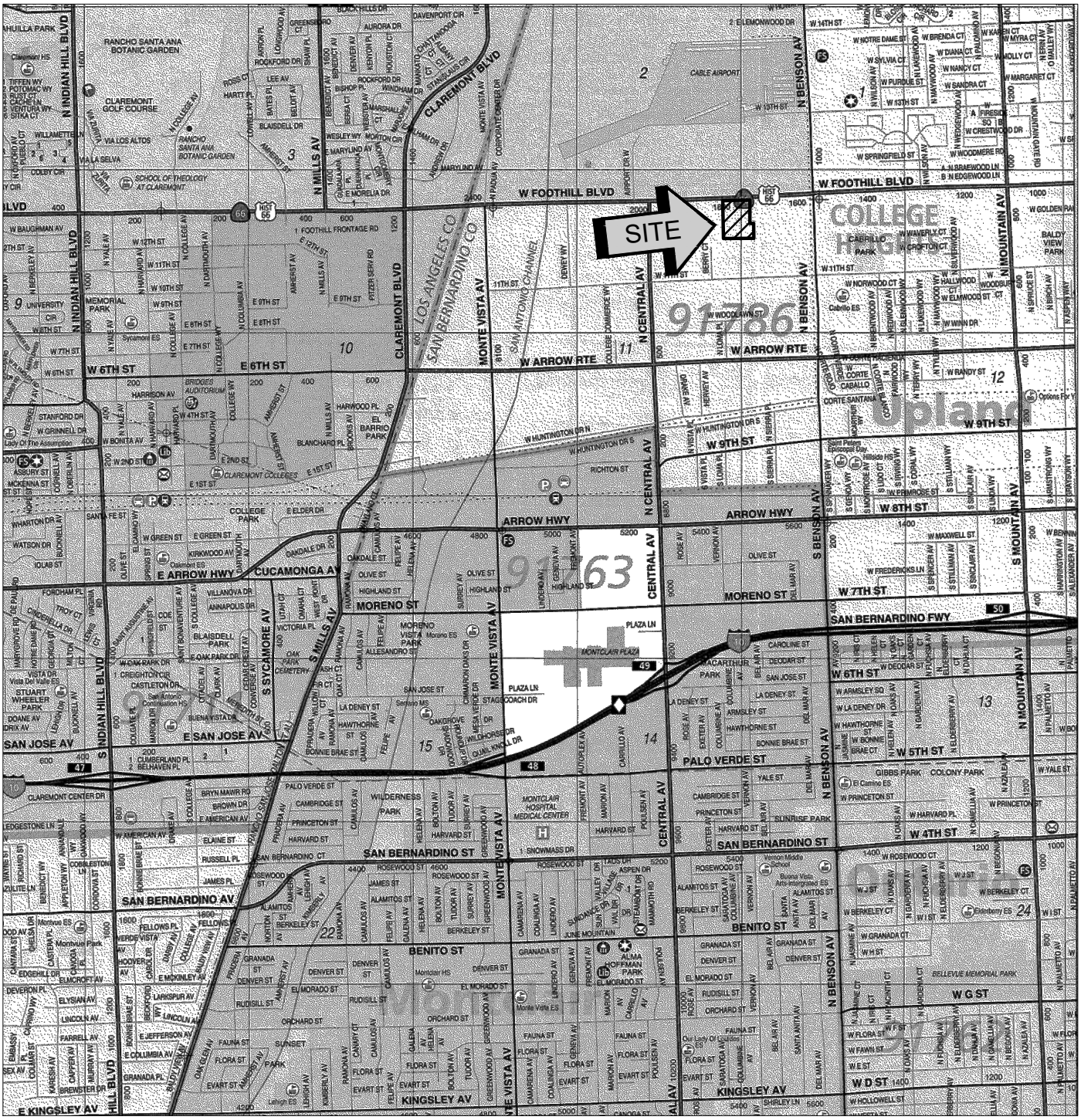
This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other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

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

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

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

APPENDIX A



SOURCE: SAN BERNARDINO COUNTY
THOMAS GUIDE, 2013

SITE LOCATION MAP

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

UPLAND, CALIFORNIA

SCALE: 1" = 2400'	
DRAWN: RF CHKD: RGT	
SCG PROJECT 21G111-1	
PLATE 1	

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

FOOTHILL BLVD

NORTH
SoCalGeo

T-5

U R/W?

RETAIL

B-1

T-1

N.A.P

T-2

B-2

BLDG 1
48,007 SF

T-6

N.A.P

T-3

T-4

B-3

B-4

BLDG 2
45,645 SF

T-7

N.A.P

GEOTECHNICAL LEGEND

- APPROXIMATE TRENCH LOCATION
- APPROXIMATE BORING LOCATION (SCG PROJECT NO. 19G216-1)
- APPROXIMATE TRENCH LOCATION (SCG PROJECT NO. 19G216-1)
- EXISTING STRUCTURES TO BE DEMOLISHED

NOTE: SITE PLAN PREPARED BY HPA ARCHITECTURE

TRENCH LOCATION PLAN

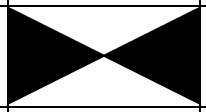
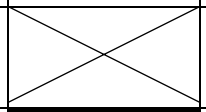
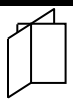
PROPOSED COMMECIAL/INDUSTRIAL DEVELOPMENT

UPLAND, CALIFORNIA

SCALE: 1" = 80'	SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: RF CHKD: RGT	
SCG PROJECT 21G111-1	
PLATE 2	

APPENDIX B

TRENCH LOG LEGEND

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

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

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

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

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

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

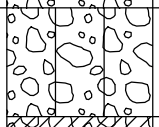
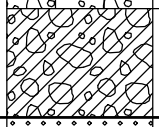
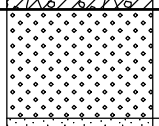
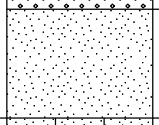
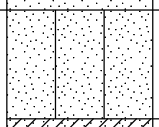
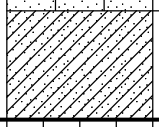
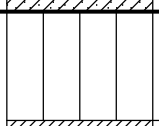
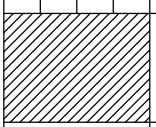
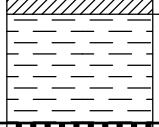
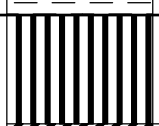
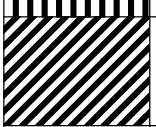
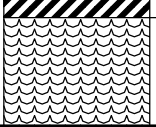
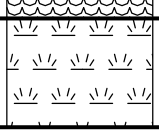
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

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

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

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, 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 DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-5

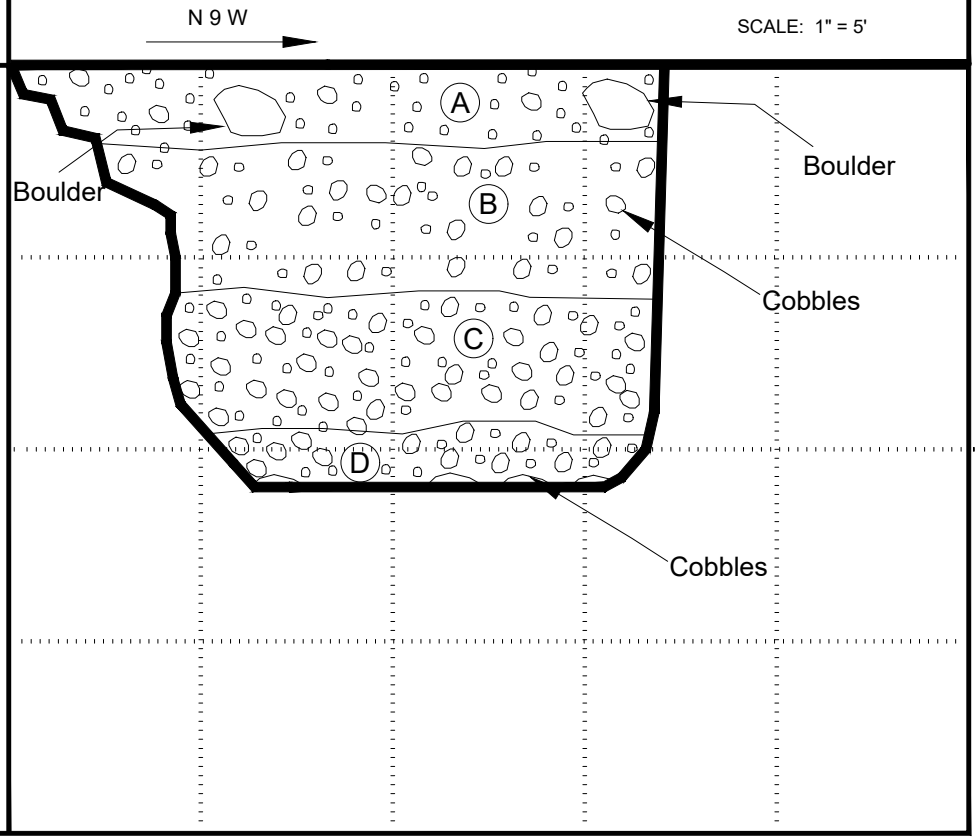
JOB NO.: 21G111-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Upland, CA
DATE: 2-3-2021

EQUIPMENT USED: Backhoe
LOGGED BY: Ryan Bermer
ORIENTATION: N 9 W
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		6	A: FILL: Dark Brown Silty fine to coarse Sand, little to some fine to coarse Gravel, abundant Cobbles, occasional Boulders, some trace fine root fibers, trace metal fragments, loose to medium dense-moist
	b		3	B: ALLUVIUM: Gray Brown fine to coarse Sand, trace Silt, abundant Cobbles, dense-damp
5	b		3	
				C: Gray Brown fine to coarse Sand, abundant Cobbles, dense-damp
	b		2	
10				D: Extensive Cobbles, very dense-damp
	b		2	
				Trench Terminated @ 11 feet Due to Dense Cobbles
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-6

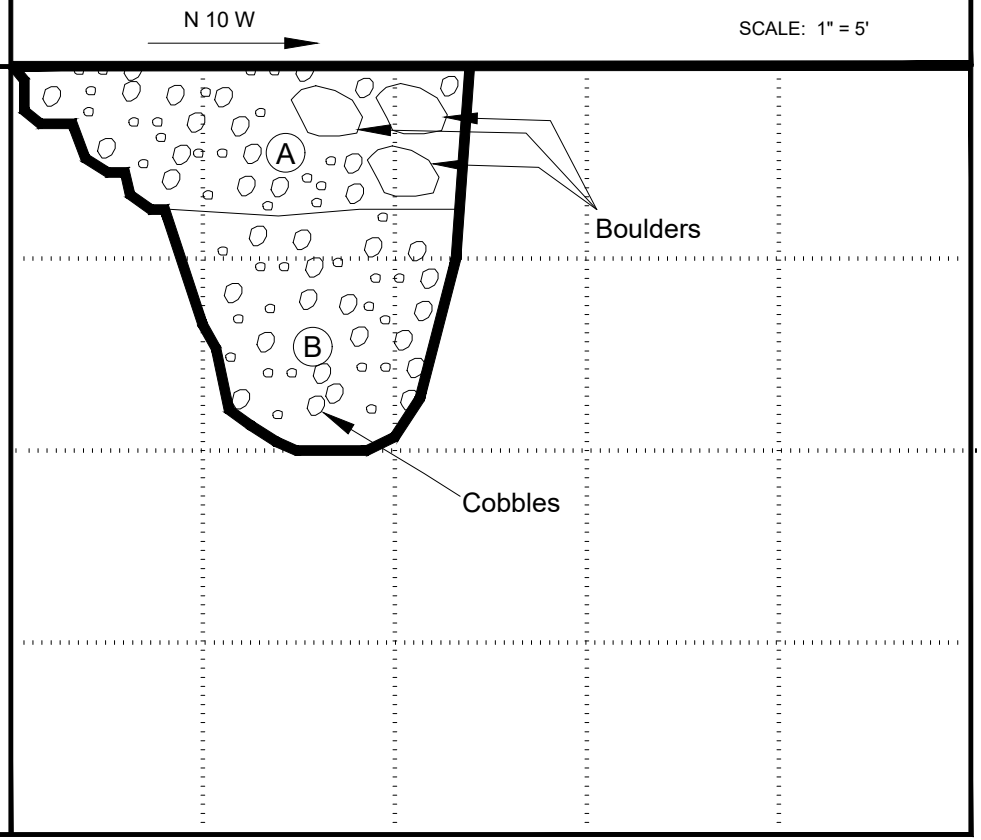
JOB NO.: 21G111-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Upland, CA
DATE: 2-3-2021

EQUIPMENT USED: Backhoe
LOGGED BY: Ryan Bermer
ORIENTATION: N 10 W
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		7	A: FILL: Dark Brown Silty fine to coarse Sand, little fine to coarse Gravel, abundant Cobbles, occasional Boulders, trace metal fragments, medium dense-moist
	b		3	B: ALLUVIUM: Gray Brown Gravelly fine to coarse Sand, abundant Cobbles, dense-damp
5	b		3	
	b		3	
10				Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-7

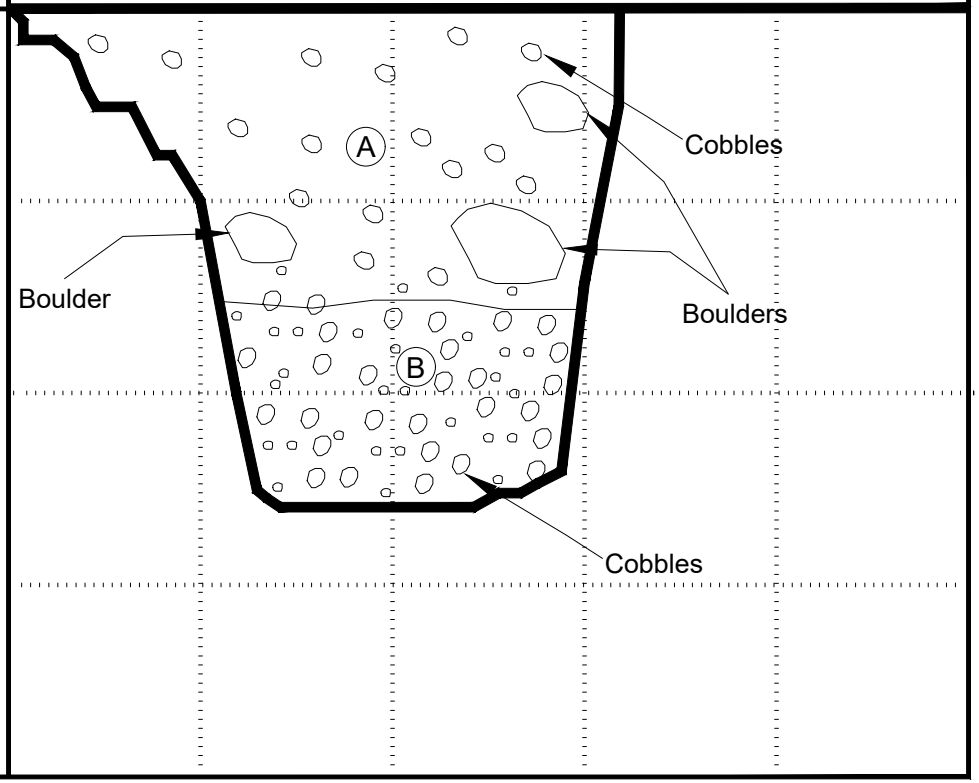
JOB NO.: 21G111-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Upland, CA
DATE: 2-3-2021

EQUIPMENT USED: Backhoe
LOGGED BY: Ryan Bermer
ORIENTATION: N 87 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		8	A: FILL: Dark Brown Silty fine to coarse Sand, little fine to coarse Gravel, occasional Cobbles, trace metal fragments, medium dense to dense-moist
5	b		8	@ 6 feet, occasional Boulders
	b		4	B: ALLUVIUM: Brown Gray fine to coarse Sand, abundant Cobbles, dense-damp
10	b		2	@ 10 feet, trace Silt
	b		3	
				Trench Terminated @ 13 feet
15				

GRAPHIC REPRESENTATION



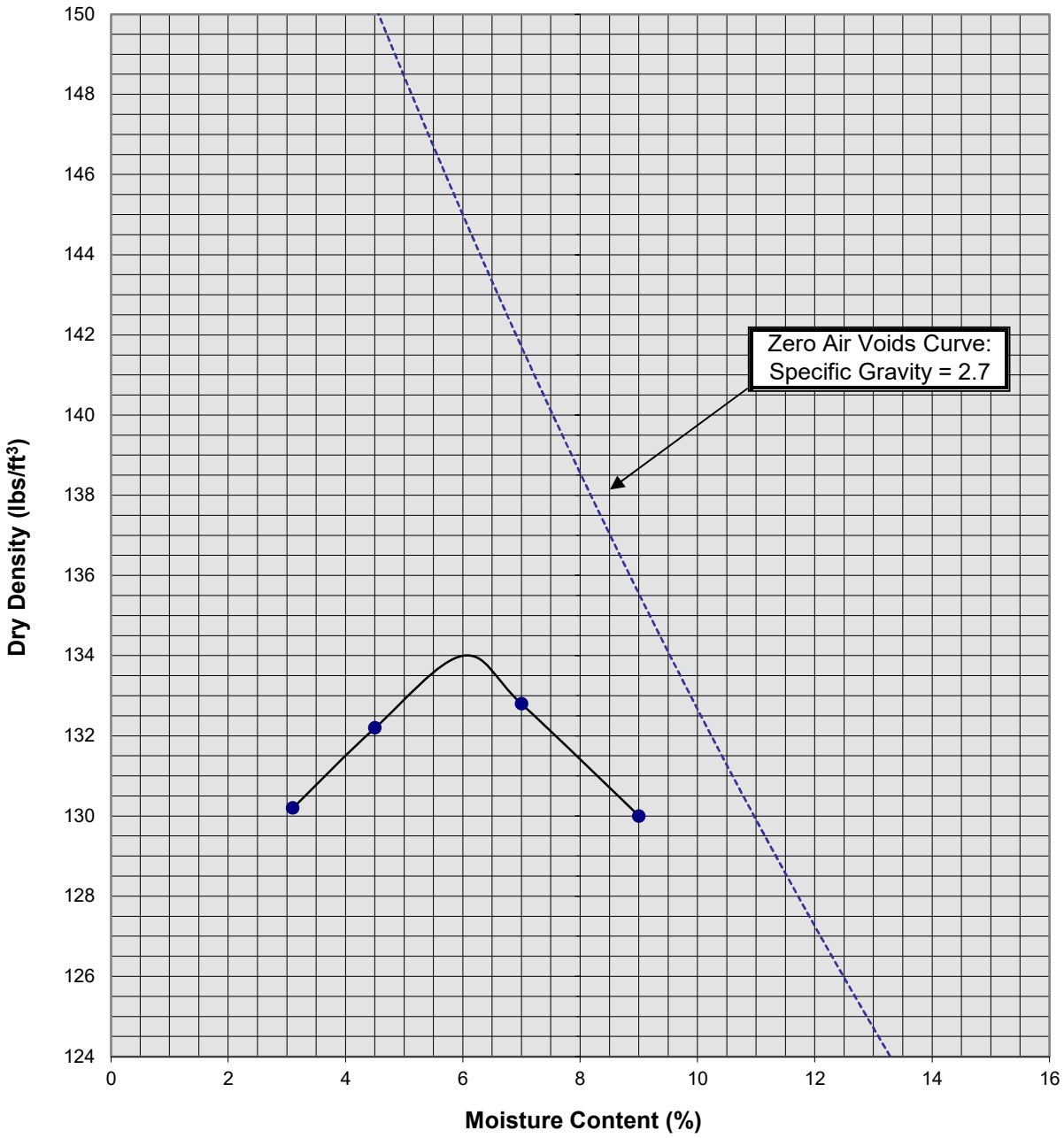
KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-3

APPENDIX C

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	T-5 @ 0-5'
Optimum Moisture (%)	5
Maximum Dry Density (pcf)	138
Soil Classification	Brown Gravelly fine to coarse Sand, trace Silt, occasional Cobbles

Note: Maximum Density and Optimum Moisture are based on 15% rock correction.

Proposed Commercial/Industrial Development
Upland, California
Project No. 21G111-1
PLATE C-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

APPENDIX D

GRADING GUIDE SPECIFICATIONS

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

General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.

- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.

- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.

- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.

- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.

- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.

- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.

- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.

- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.

- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.

- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted

- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as "contaminated," and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.

- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.

- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.

- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:

    - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.

    - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

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

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.

- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.

- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.

- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.

- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.

- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.

- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.

- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.

- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.

- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.

- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.

- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.

- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core

- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.

- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.

- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).

- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.

- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

Cut Slopes

- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.

- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.

- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

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

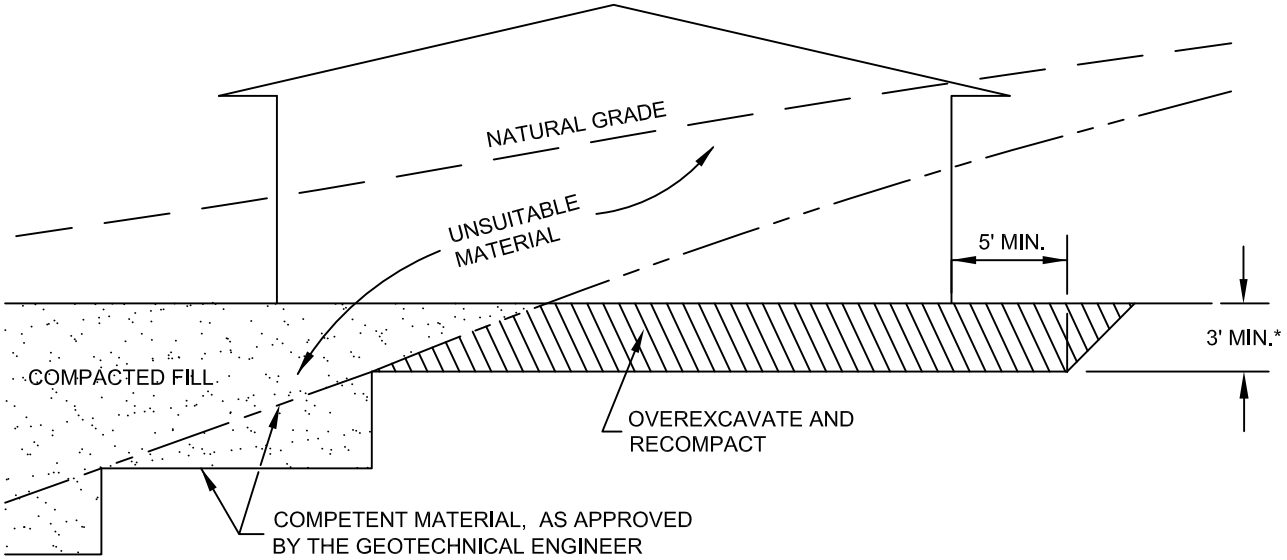
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.

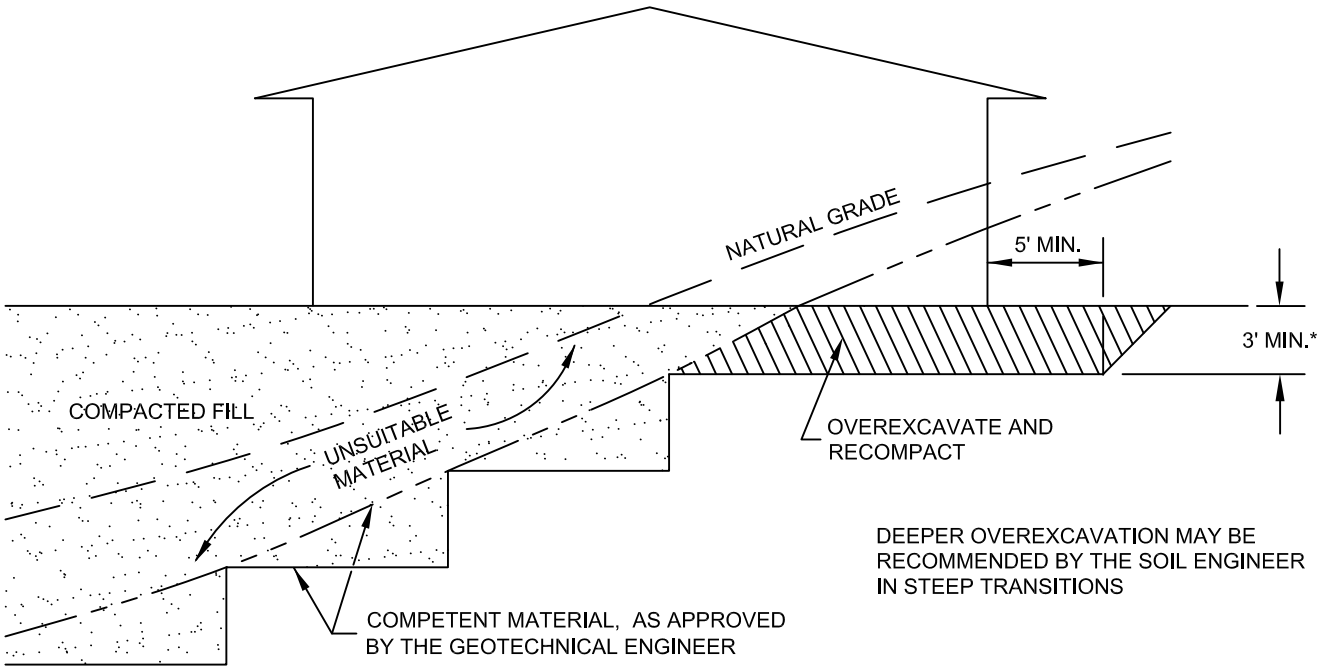
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.

- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ¾-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT



CUT/FILL LOT (TRANSITION)



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

TRANSITION LOT DETAIL

GRADING GUIDE SPECIFICATIONS

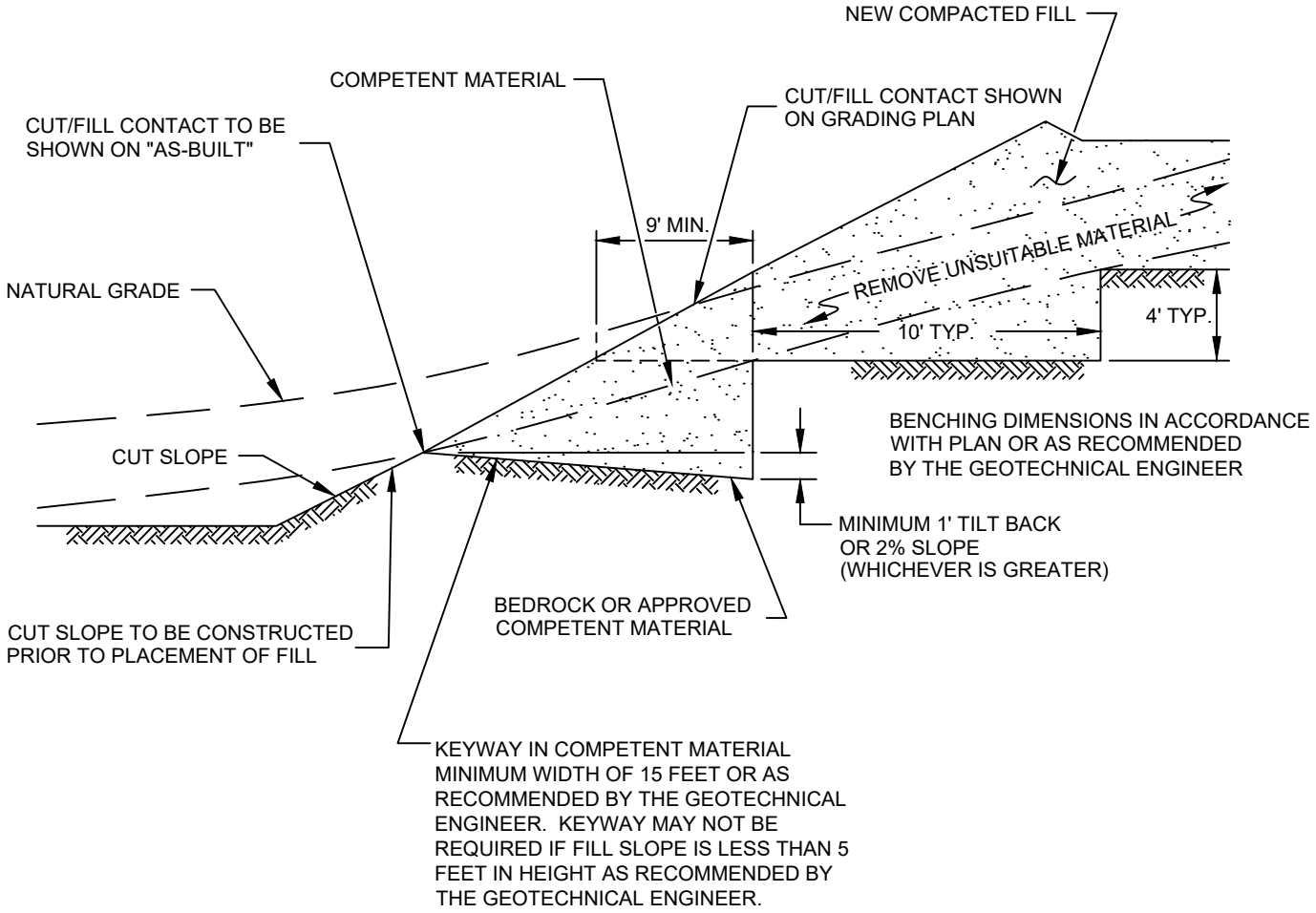
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-1

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



FILL ABOVE CUT SLOPE DETAIL

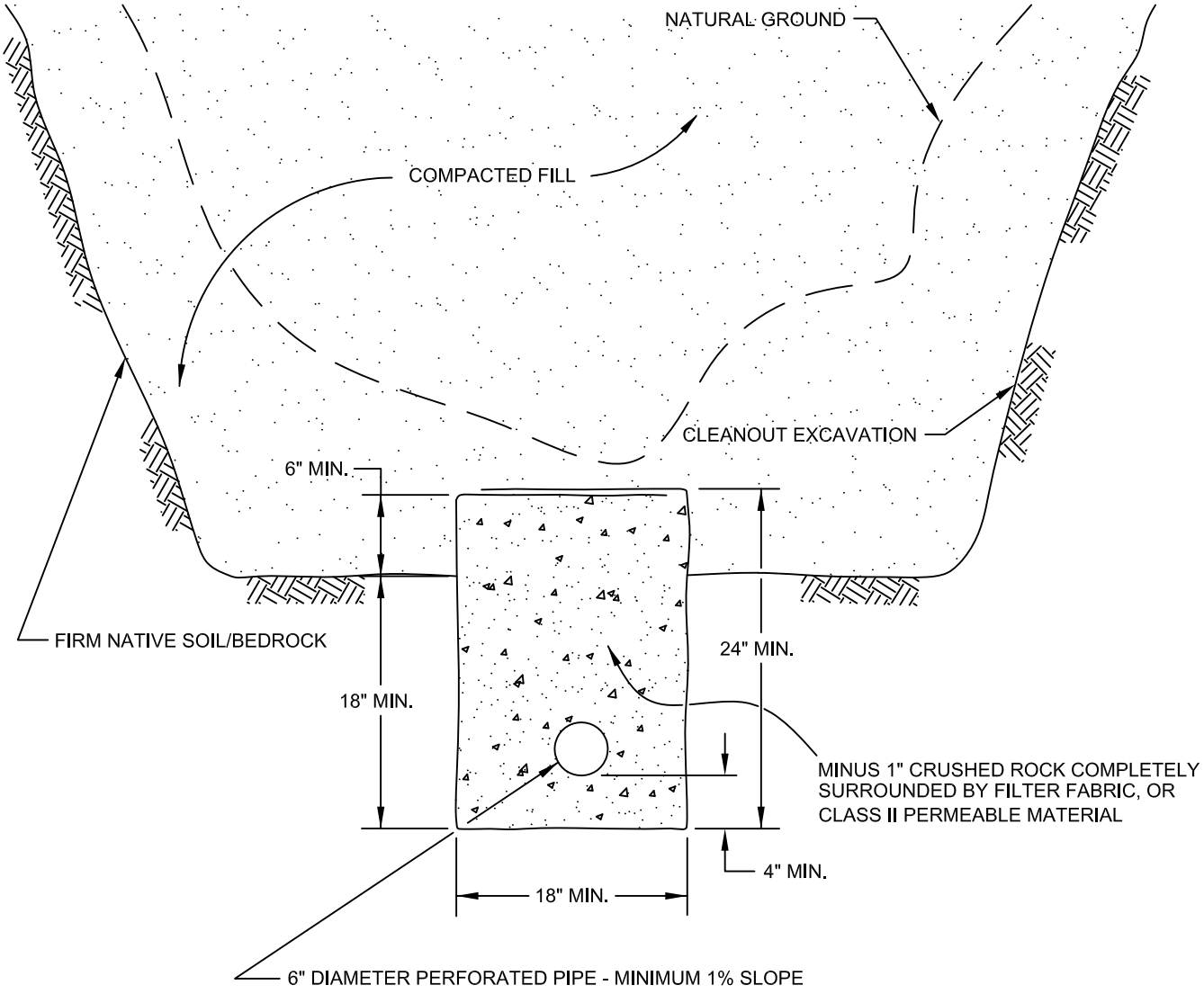
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



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

SCHEMATIC ONLY
NOT TO SCALE

CANYON SUBDRAIN DETAIL

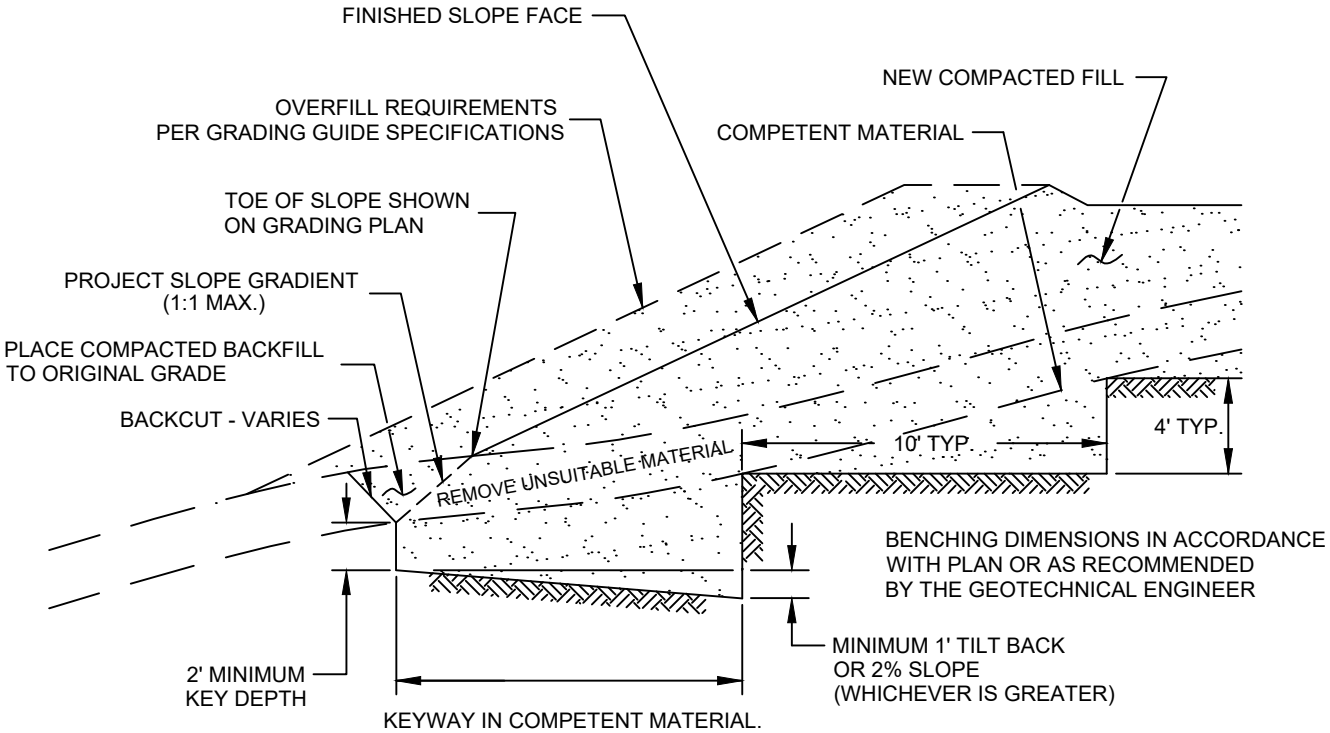
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



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

FILL ABOVE NATURAL SLOPE DETAIL

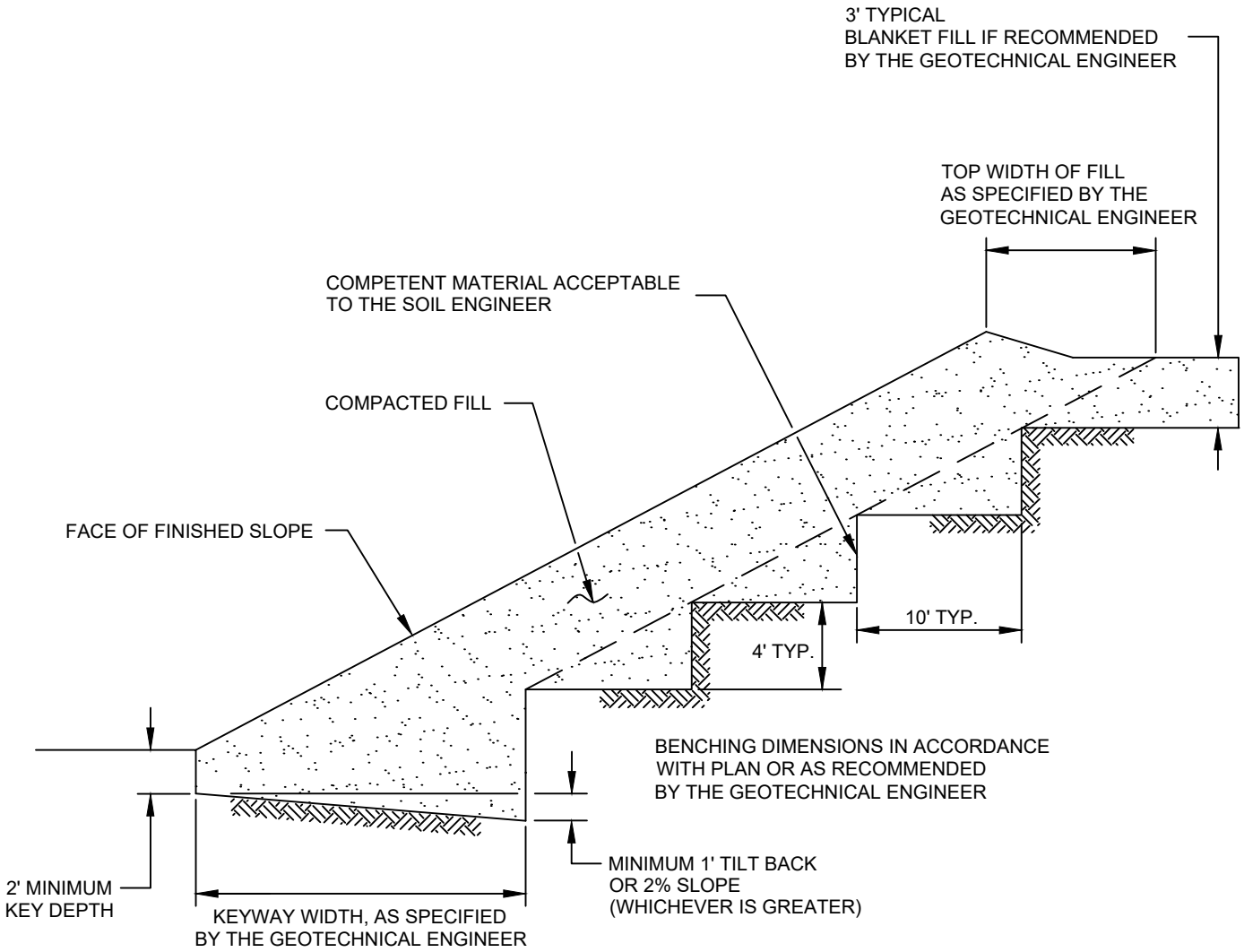
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



STABILIZATION FILL DETAIL

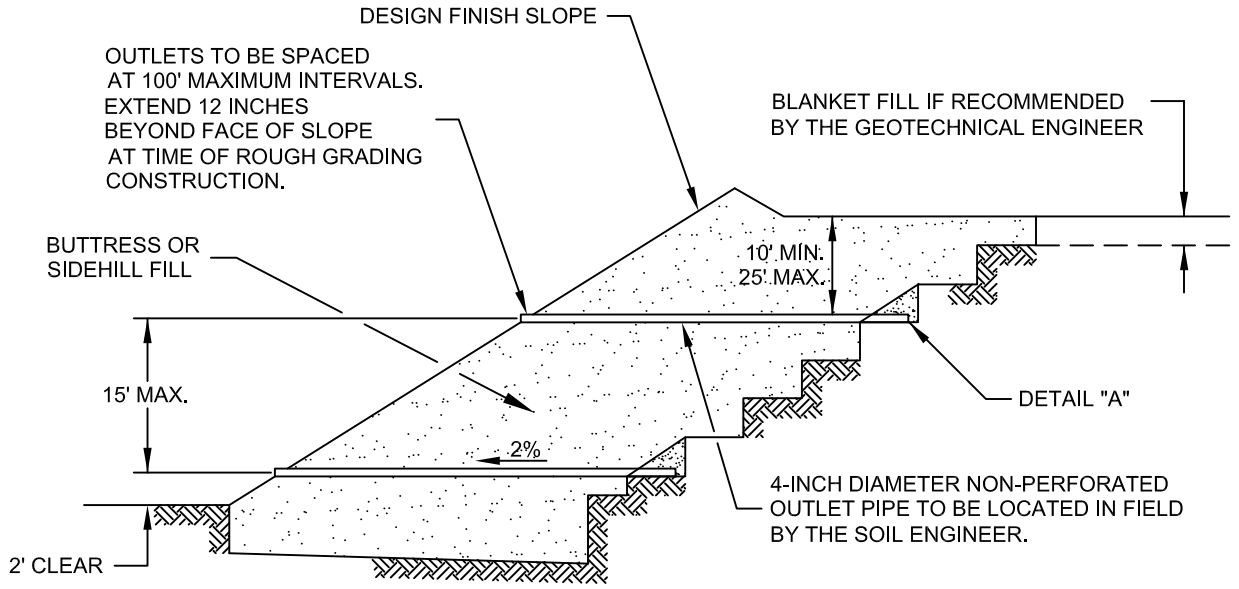
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



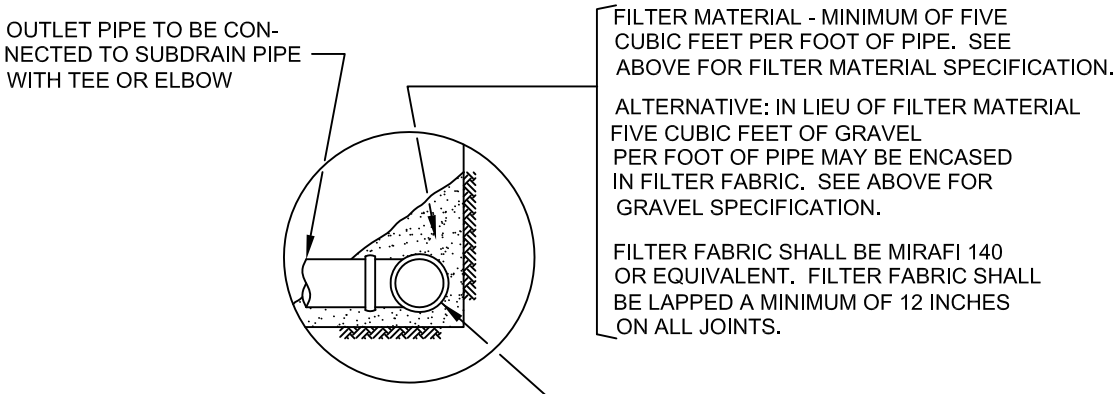
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

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

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50



DETAIL "A"

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

SLOPE FILL SUBDRAINS

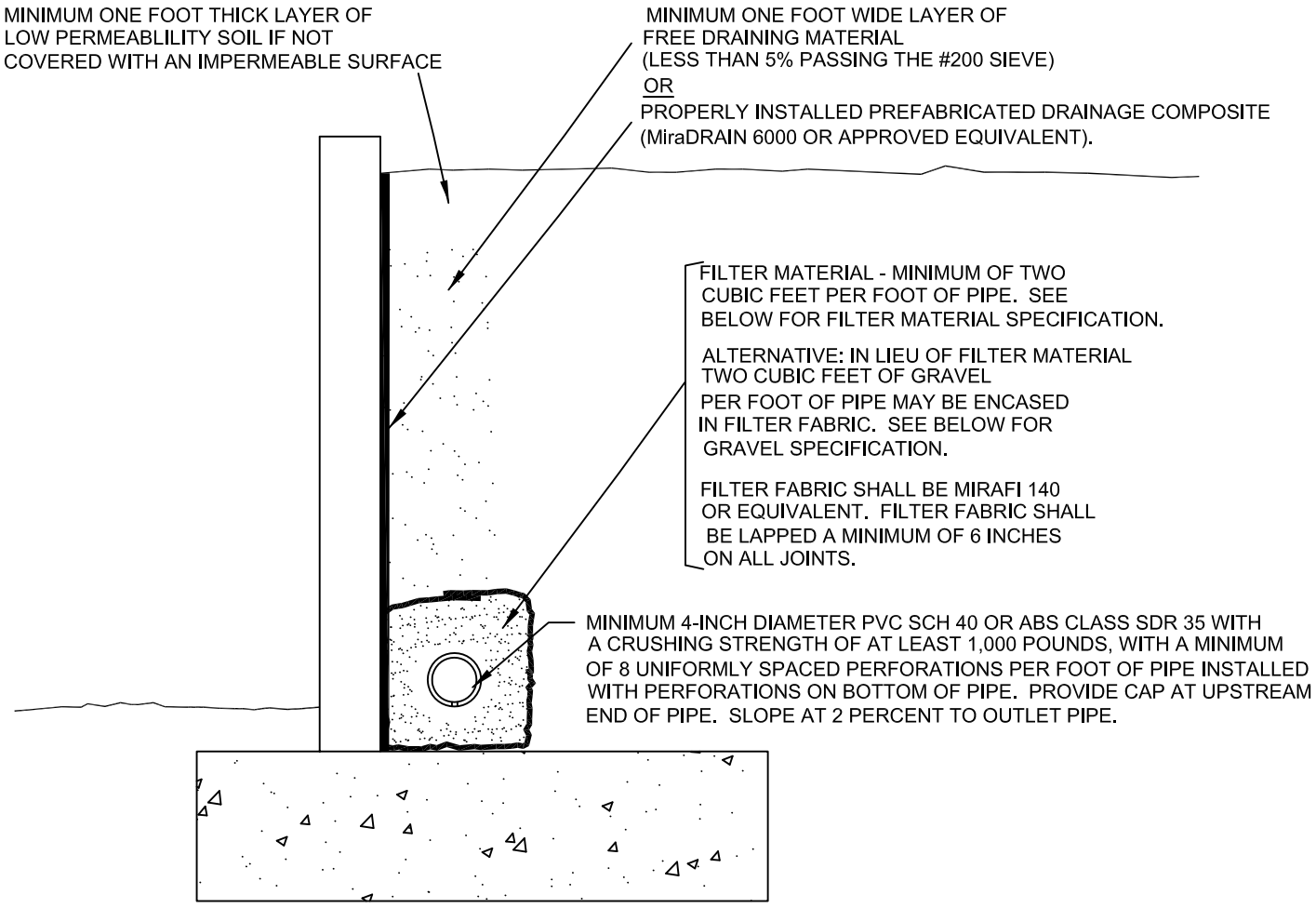
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



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

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

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50

RETAINING WALL BACKDRAINS

GRADING GUIDE SPECIFICATIONS

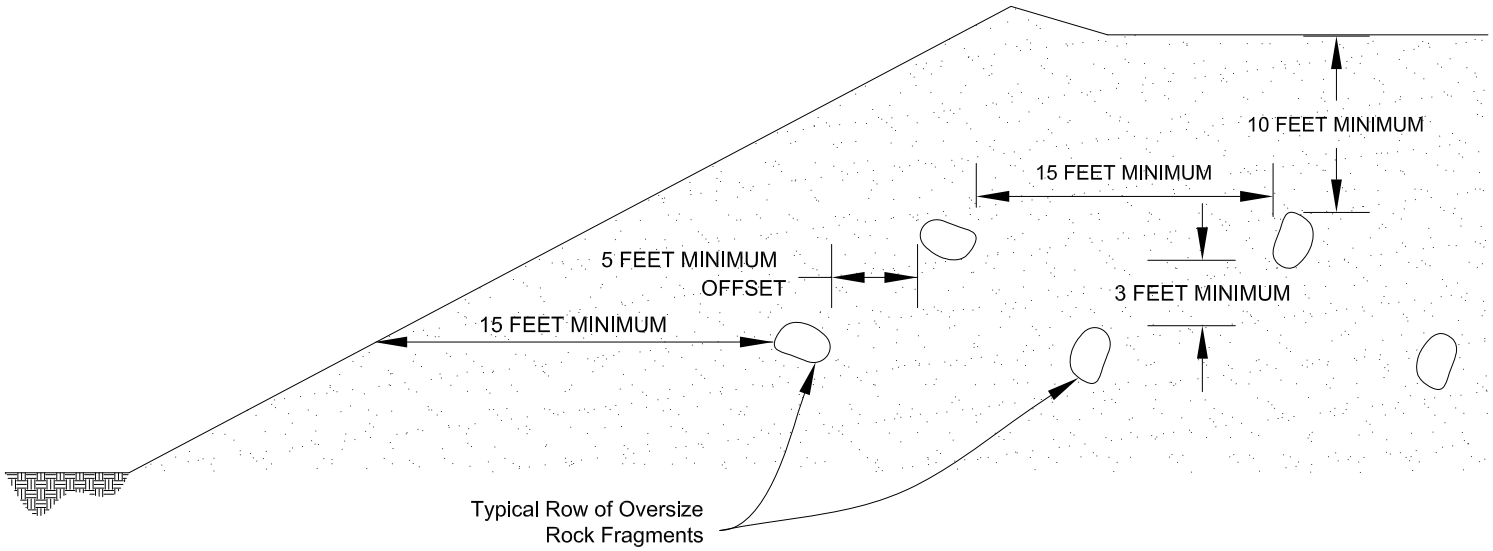
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

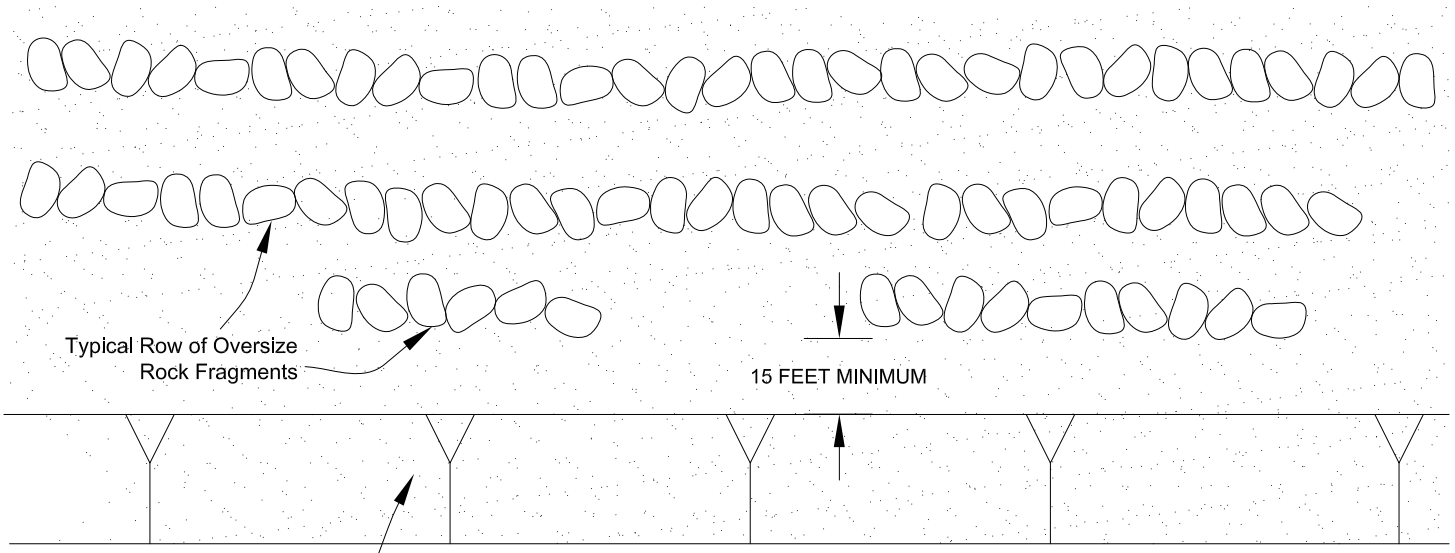
PLATE D-7

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



Section View



Plan View

PLACEMENT OF OVERSIZED MATERIAL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

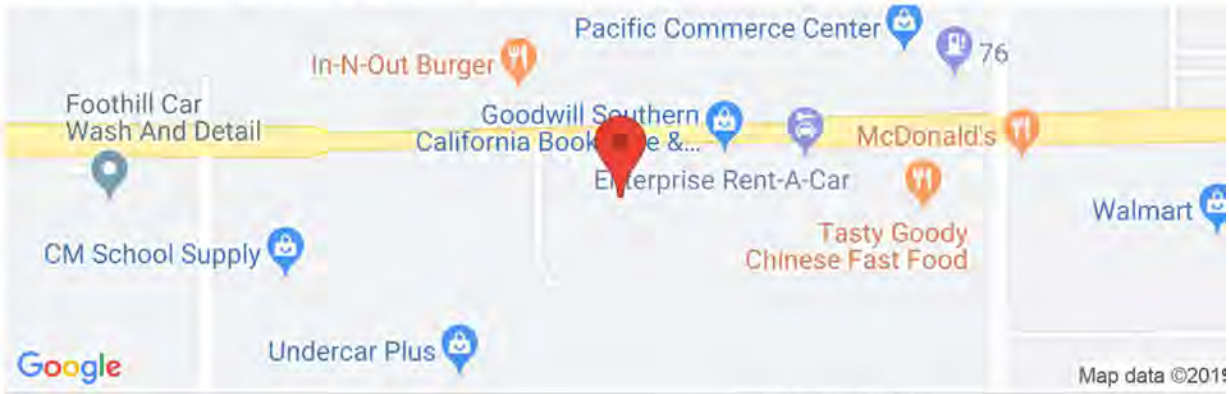
SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX E

OSHPD

Latitude, Longitude: 34.106236, -117.685096



Date	10/16/2019, 1:00:17 PM
Design Code Reference Document	ASCE7-16
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.694	MCE_R ground motion. (for 0.2 second period)
S_1	0.637	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.694	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.129	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.719	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.791	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.694	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.822	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.072	Factored deterministic acceleration value. (0.2 second)
S1RT	0.637	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.698	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.675	Factored deterministic acceleration value. (1.0 second)
PGAd	0.851	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.93	Mapped value of the risk coefficient at short periods
C_{R1}	0.913	Mapped value of the risk coefficient at a period of 1 s

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

SEISMIC DESIGN PARAMETERS - 2019 CBC

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

UPLAND, CALIFORNIA

DRAWN: RF
CHKD: RGT

SCG PROJECT
21G111-1

PLATE E-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX F

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: 4 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, no discernible Aggregate base							
		16			FILL: Brown Silty fine Sand, little medium to coarse Sand, little fine to coarse Gravel, trace Asphaltic concrete fragments, medium dense-moist		8					
		50			ALLUVIUM Gray Brown fine to coarse Sand, little fine to coarse gravel, very dense-dry to damp		2					
5												
		69			Gray fine to coarse Sandy Gravel, occasional Cobbles, very dense-dry to damp		2					
					Boring Terminated at 7½ feet due to refusal on very dense Cobbles							

TBL 19G216.GPJ SOCALGEO.GDT 2/12/21

TEST BORING LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: 11 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
0					ALLUVIUM Light Gray Gravelly fine to coarse Sand, occasional to extensive Cobbles, trace Silt, dense to very dense-dry to damp							
		50/3"					1					
		45					2					
5												
		50/5"										No Sample Recovery
		62					2					
10												
		78/11"					2					
15					Boring Terminated at 15 feet							

TBL 19G216.GPJ SOCALGEO.GDT 2/12/21

TEST BORING LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: --
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					7± inch PCC pavement							
					POSSIBLE FILL:Dark Gray Brown Gravelly fine to coarse Sand, little Silt, dense-damp		4					
					Boring Terminated at 2 feet due to refusal on very dense Cobbles							

TBL 19G216.GPJ SOCALGEO.GDT 2/12/21

TEST BORING LOG **PLATE B-3**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: 7 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		70/11"			FILL: Brown Silty fine Sand, trace to little medium to coarse Sand, trace fine to coarse Gravel, very dense-damp		3					
		67/11"			POSSIBLE FILL Dark Gray Brown Gravelly fine to coarse Sand, little Silt, very dense-damp to moist		7					
5												
		64			ALLUVIUM Light Gray Brown Gravelly fine to coarse Sand, extensive Cobbles, very dense-damp		2					
		67					3					
10												
					Boring Terminated at 11 feet due to refusal on very dense Cobbles							

TBL 19G216.GPJ SOCALGEO.GDT 2/12/21

TEST BORING LOG

PLATE B-4

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-1

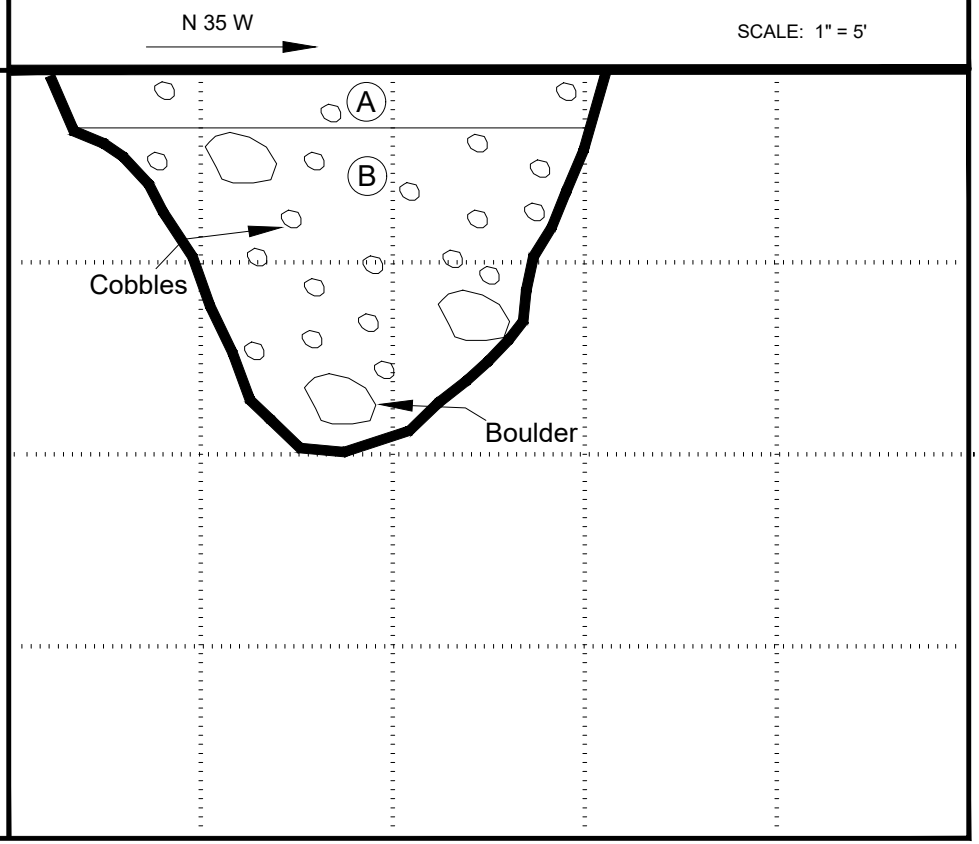
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 35 W
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
5	b			A: FILL: Brown Silty fine to medium Sand, some fine to coarse Gravel, medium dense-damp
	b			B: ALLUVIUM: Brown fine to coarse Sand, abundant Cobbles, abundant Boulders, very dense-dry
	b			
10	b			Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-2

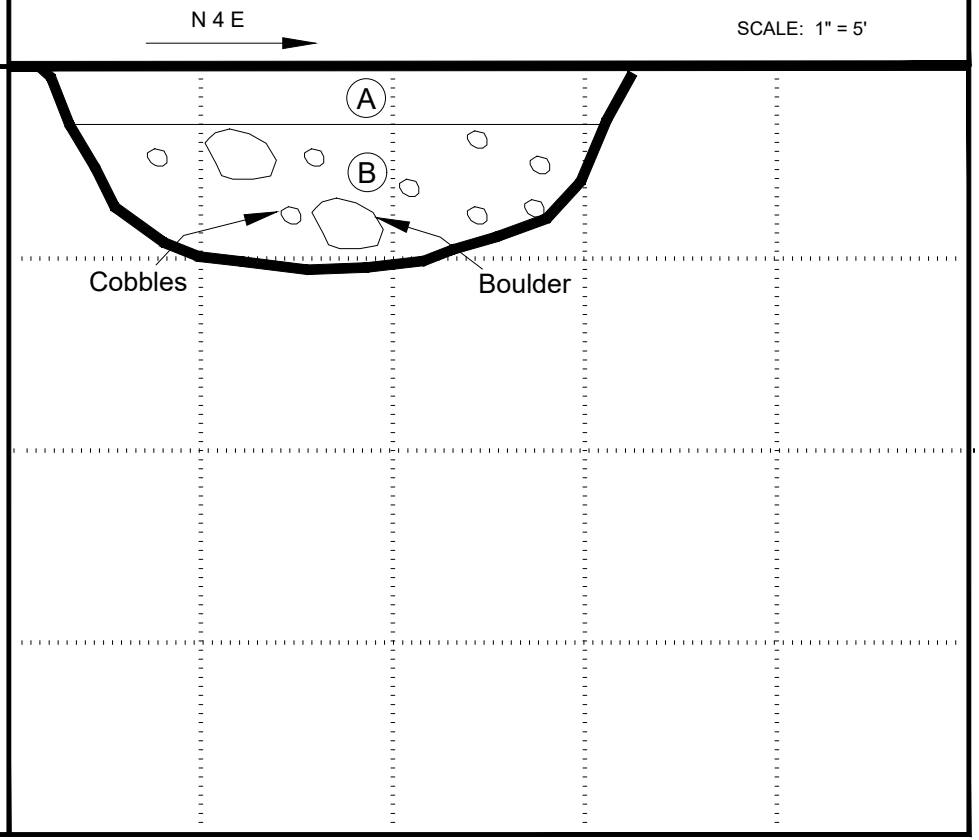
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 4 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b			A: FILL: Brown Silty fine Sand, some medium Sand, trace fine to coarse Gravel, medium dense-moist
	b			B: ALLUVIUM: Brown fine Sand, abundant Cobbles, abundant Boulders, some fine to coarse Gravel, very dense-moist
5	b			Trench Terminated @ 5.5 feet
10				
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-3

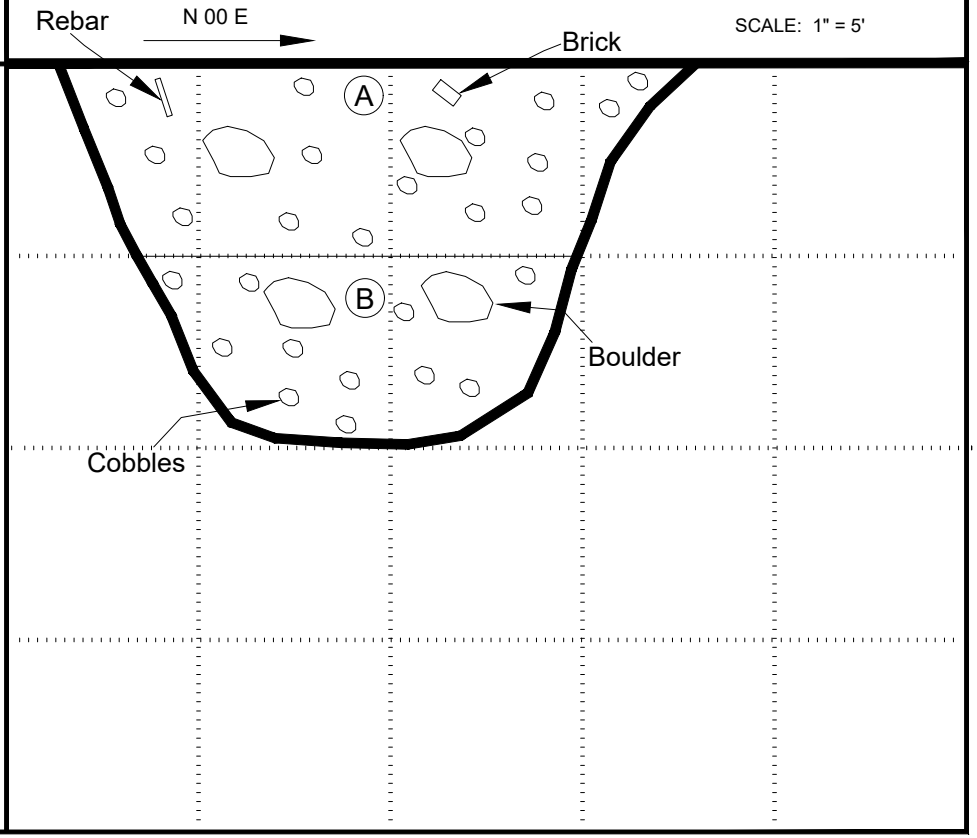
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 00 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b			A: FILL: Brown Silty fine Sand, some fine to coarse Gravel, abundant Cobbles, abundant Boulders, some Brick fragments, trace rebar, very dense-damp
5	b			
	b			B: ALLUVIUM: Brown fine to coarse Sand, abundant Cobbles, abundant Boulders, some fine to coarse Gravel, very dense-damp
10	b			Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-4

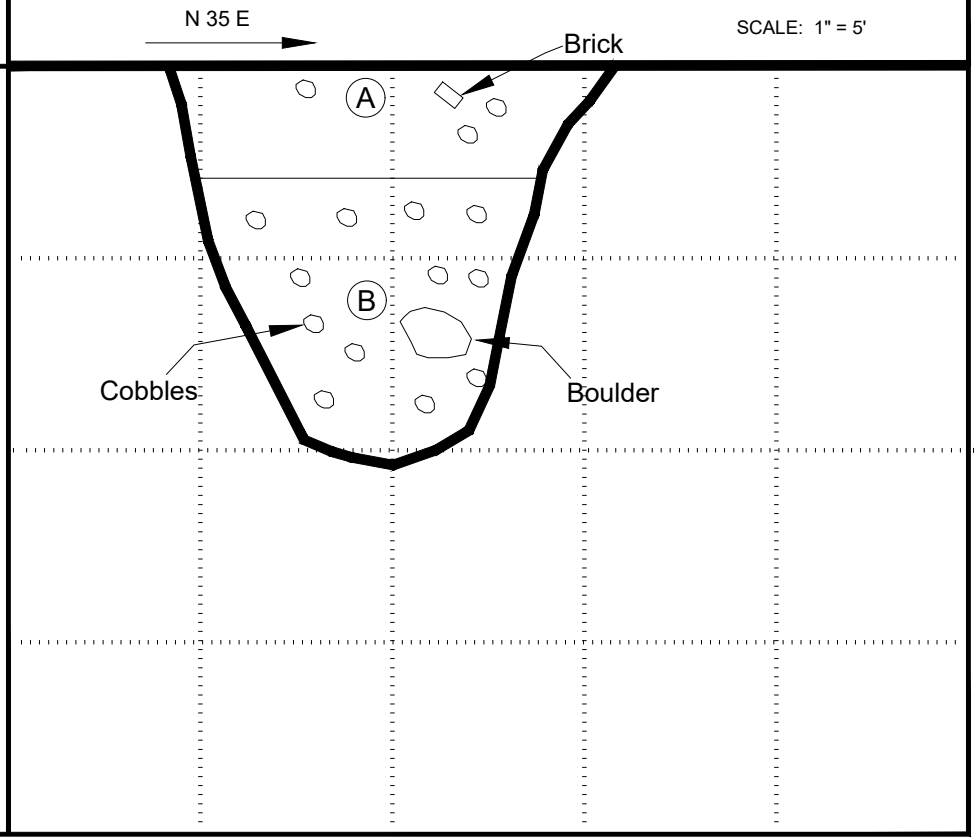
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 35 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
5	b			A: FILL: Dark Gray Brown Silty fine to coarse Sand, some fine to coarse Gravel, occasional Cobbles, abundant Boulders, trace Brick fragments, trace plastic, medium dense to dense-dry to damp
	b			
	b			
	b			B: ALLUVIUM: Light Gray Brown fine to coarse Sandy Gravel, abundant Cobbles, occasional Boulders, very dense-dry to damp
	b			
10	b			Trench Terminated @ 10.5 feet
15				

GRAPHIC REPRESENTATION

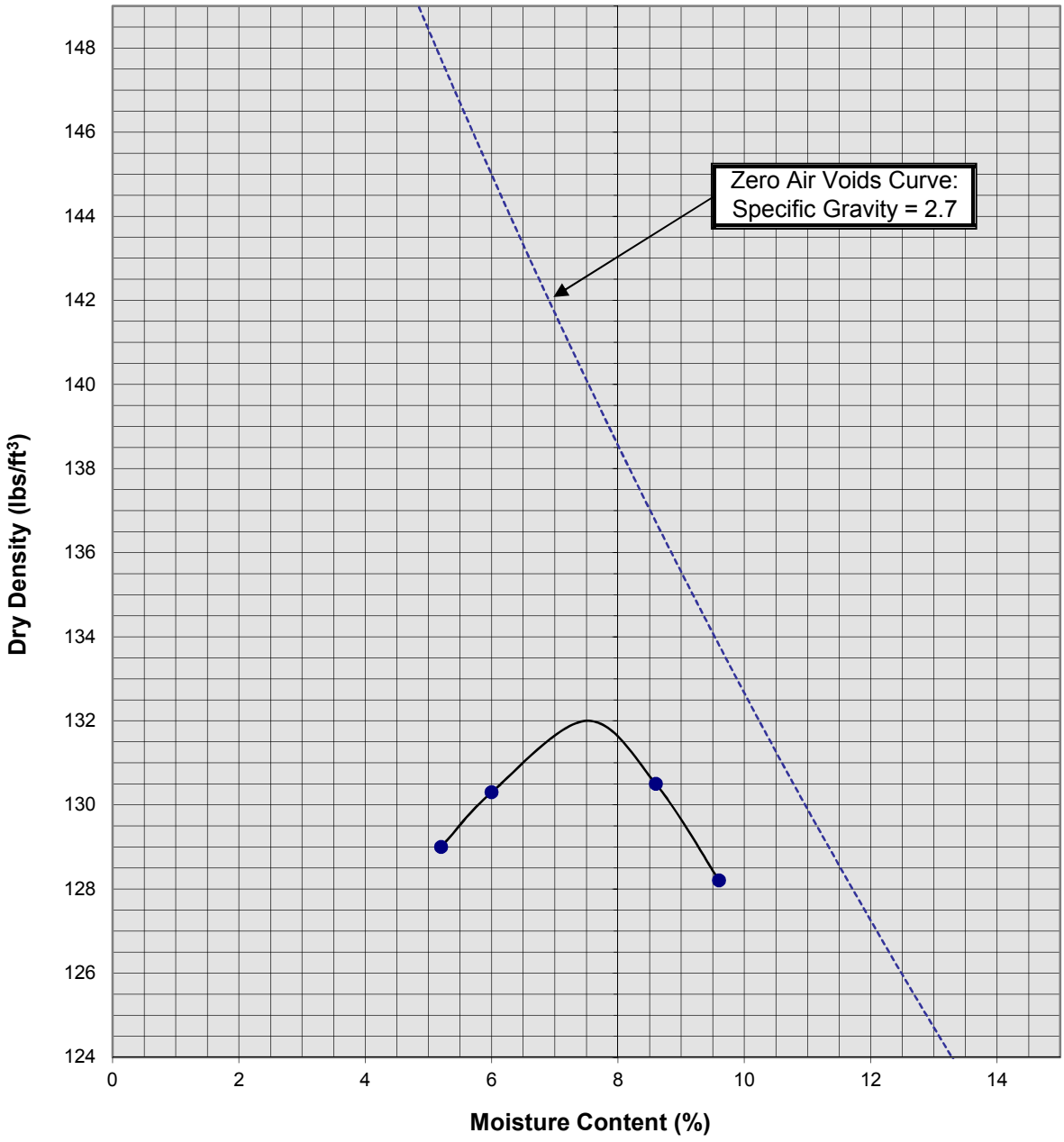


KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-8

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	B-1 @ 0-5'
Optimum Moisture (%)	7.5
Maximum Dry Density (pcf)	132
Soil Classification	Light Gray Brown Silty fine to coarse Sand, little fine to coarse Gravel

Proposed Warehouse
Upland, California
Project No. 19G216-1
PLATE C-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

PARTNER
Engineering and Science, Inc.®

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

West Foothill Boulevard
Upland
1770-1780 West Foothill Boulevard
Upland, California 91786

Report Date: February 11, 2021
Partner Project No. 21-304796.1

Prepared for:

Magellan Value Partners
1900 Avenue of the Stars, Suite 2470
Los Angeles, California 90067

PARTNER
Engineering and Science, Inc.

February 11, 2021

Mr. Somy Mukherjee
Magellan Value Partners
1900 Avenue of the Stars, Suite 2470
Los Angeles, California 90067

Subject: Phase I Environmental Site Assessment
West Foothill Boulevard Upland
1770-1780 West Foothill Boulevard
Upland, California 91786
Partner Project No. 21-304796.1

Dear Mr. Mukherjee:

Partner Engineering and Science, Inc. (Partner) is pleased to provide the results of the *Phase I Environmental Site Assessment* (Phase I ESA) report of the abovementioned address (the "subject property"). This assessment was performed in conformance with the scope and limitations as detailed in the ASTM Practice E1527-13 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

This assessment included a site reconnaissance as well as research and interviews with representatives of the public, property ownership, site manager, and regulatory agencies. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (310) 622-8855.

Sincerely,

DB Stott

Debbie Stott, P.G.
Principal

EXECUTIVE SUMMARY

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in accordance with the scope of work and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and set forth by Magellan Value Partners for the property located at 1770-1780 West Foothill Boulevard in the City of Upland, San Bernardino County, California (the "subject property"). The Phase I Environmental Site Assessment is designed to provide Magellan Value Partners with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

Property Description

The subject property is located on the south side of West Foothill Boulevard, west of North Benson Avenue, within a mixed commercial, retail, and industrial area of San Bernardino County. Please refer to the table below for further description of the subject property:

Subject Property Data	
Addresses:	1770-1780 West Foothill Boulevard, Upland, California
Property Use:	Commercial/Light Industrial
Number of Buildings:	3
Number of Floors:	1 to 2
Date of Construction:	Late 1970/Early 1980s
Assessor's Parcel Numbers (APNs):	1007-091-01-0000, 1007-091-02-0000, and 1007-091-03-0000
Type of Construction:	Concrete Block
Current Tenants:	Mountain Avenue Bees, Inc.
Site Assessment Performed By:	Heather Hodgetts of Partner
Site Assessment Conducted On:	January 15, 2021

The subject property consists of three parcels of land. The site is roughly divided in half by a fence creating two lease areas at 1770 and 1780 West Foothill Boulevard. A description of the two lease areas is presented below:

- 1770 West Foothill Boulevard: The eastern portion of the subject property is identified by APN 1007-091-02-0000 and 1007-091-02-0000. The eastern portion of the subject property is currently unoccupied and consists of vacant, unpaved land. A pole sign is located on the northeast corner of the subject property.
- 1780 West Foothill Boulevard: The western portion of the subject property is identified by APN 1007-091-01-0000 and is occupied by Mountain Avenue Bees, Inc. The southern portion of the parcel is currently developed with three buildings including a 2-story office building; a production & storage building located on the southwest corner of the site; and a storage building located on the southern boundary of the site. A septic tank is located adjacent to the south side of the office building. A concrete vault (associated with a former sawdust collector for a bandsaw used by former tenant Fence Craft) is located further south of the office building.

The production & storage building is divided into six separate but connected rooms used for honey production activities (honey extraction, wax separator, bee box assembly, bee box cleaning, and honey storage in 55-gallon food grade drums). The northern most room contains honey extraction equipment. Two floor drains were installed by Bees Mountains in the room for wash down activities. The floor drains are connected to the onsite septic system located further east of the room. A former sink utilized by a former tenant was formerly located adjacent to the east of the southern-most room, along the southwest corner of the subject property. Wastewater discharged to the southwest corner of the site and flowed to the adjacent property to the southwest.

The storage building located on the southern boundary of the site is used to store bee boxes. No electrical service is provided to this building. A linear, stormwater ribbon drain is located on the north side of the building. Stormwater from this drain discharges to the southwest corner of the site and flows to the adjacent property to the southwest.

Access to the subject property is via an entrance along West Foothill Boulevard.

According to available historical sources, the subject property was undeveloped land as early as 1897 to 1938. From 1949 to 1953, a small driveway from West Foothill Boulevard leading to several small structures was visible on the western side of the subject property. By 1964, the subject property was developed with two small buildings on the northwest corner of the site. By 1972 and 1975, the subject property appears to be occupied by at least two businesses on the eastern and western sides of the site. The eastern portion of the subject property was developed with a structure on the northeast corner of the site. By 1981, an additional structure appeared to be located on the southwest corner of the site. By 1985, the existing three structures were located on the southwest portion of the subject property. Several stockpiles of soil appear to be present on the eastern portion of the property. By 1989, the eastern portion of the subject property appears to be vacant with the structure on the northeast corner removed. The structures on the northwest corner of the site appeared to have been removed. Tenants on the subject property include Tenants on the subject property include Fence Craft of Upland, Luna Jesus, Fence Craft Fence Co. (1964-2004); Intravaia Rock/Sand (1975-1985), and Mountain Avenue Bees, Inc. (2000-present).

Partner reviewed San Bernardino County Fire Department (SBCFD) records:

Inactive permit facilities:

- Intravaia Rock & Sand (Est. # 89017873) at 1770 West Foothill Boulevard was issued a Hazardous Waste Generator Permit, a Hazardous Materials Handler Underground Storage Tank (UST) Permit, and an UST Permit.
- Fence Craft of Upland (Est. # 86010427) at 1780 West Foothill Boulevard was issued a UST Permit and a Hazardous Materials Handler UST Only Permit.

Permits to remove/install/modify underground storage tanks:

- Intravaia Rock & Sand (Est. # 89017873) at 1770 West Foothill Boulevard was issued a permit to remove one UST on March 16, 1989. The tank was rinsed by Containerized Chemical Disposal using 150 pounds dry ice. The tank was manifested to Gibson Refining – Bakersfield (Manifest. # 88178197). SDFCD records indicated that soil samples were taken and lab results for fuel hydrocarbons were reportedly non-detect. No further records regarding the 10,000-gallon UST including location of tank or laboratory data were identified.
- Fence Craft of Upland (Est. # 86010427) at 1780 West Foothill Boulevard was issued a permit to remove one UST on March 20, 1990. SDFCD records indicate "backfill approved on 03/26/1990 upon soil sample test results.

Additional Records for 1780 West Foothill Boulevard:

- A May 8, 1986 letter from Disposal Control Service, Inc. indicated that the product line for an onsite 2,000-gallon UST was tested at Fence Craft (1780 West Foothill Boulevard).
- A County of San Bernardino Environmental Health Services (EHS) permit was issued to Fence Craft of Upland, Inc. (1780 West Foothill Boulevard) for Hazardous Material Handler, Underground Tank Only. The permit was renewed in 1986, 1987, 1988, and 1990.
- In 1990, a County of San Bernardino Department of EHS permit was issued to Fence Craft of Upland, Inc. (1780 West Foothill Boulevard) for the construction and/or removal of underground storage facility. An application for the removal of UST was completed on February 9, 1990 for the removal of a 1,950-gallon supreme leaded gas steel UST, with submerged fill. One UST was removed. Sample results were analyzed using EPA Method 8020 and 8015. CalScience Environmental Labs reports that two soil samples were analyzed for gasoline and diesel (EPA Method 8015A), Benzene, Toluene, Ethylbenzene, Total Xylenes and others (EPA Method 8020). Gasoline and diesel were not detected above the laboratory detection limit (5 milligram per kilograms (mg/kg). Benzene (250 micrograms per kilogram (µg/kg), Toluene (350 µg/kg), Ethylbenzene (300 µg/kg), and Total Xylenes (3,160 µg/kg-image not clear) in Sample 1. Only Total Xylenes (50 µg/kg) was detected above the laboratory detection limit (50 µg/kg) in Sample 2. A sketch depicts the UST location as adjacent to a fence, northwest of an onsite building. On March 27, 1990, EHS reviewed reports submitted on March 26, 1990 by CalScience Environmental Labs and concluded further investigation was not warranted at the time. A copy of the closure letter is provided in Appendix B.
- A Supplemental Inspection Report dated June 12, 2002 for Fence Craft of Upland, Inc. indicated the facility sold and installed custom metal and wood fencing. A small quantity of compressed gases used for welding or cutting (less than 200 foot per cylinder) and propane was observed onsite. No maintenance of vehicles was conducted onsite. No permits were required at the time. It was noted that the two buildings in the back of the property was subleased to beekeepers to store bee boxes, equipment, and honey in 55-gallon drums. No violations were noted.

SBCFD does not have records of active permit facilities, Haz Mat Incident Response Activity, or site remediation associated with the subject property. The agency database report obtained from Environmental Data Resources, Inc. (EDR) identified the subject property as:

- Fence Craft of Upland Inc. (EDR Map ID: A1, A3, A6), listed at 1780 West Foothill Boulevard, is identified in the SWEEPS UST, CA FID UST, HIST UST, HAZNET, and HWTS databases. According to the SWEEPS UST, HIST UST, and GeoTracker databases, one 1,800-gallon unleaded gasoline UST was identified at the site (SBCFD records have also noted the capacity of the UST as 1,950-gallon and 2,000-gallon). The installation date was listed as unknown. As discussed above and in Section 4.1.1, Fence Craft of Upland remove one 1,950-gallon gasoline steel UST on March 20, 1990. On March 27, 1990, EHS (currently known as SBCFD) reviewed reports submitted on March 26, 1990 by CalScience Environmental Labs and concluded further investigation was not warranted at the time. Based on the removal of the tank, the analytical results, and the regulatory closure, the former UST is considered a historical recognized environmental condition and no further action is considered necessary.
- Intravaia Rock & Sand (EDR Map ID: A2, A4, A5), listed at 1770 West Foothill Boulevard, is identified in the HIST UST, SWEEPS UST, CA FID UST, and EMI databases. According to the SWEEPS UST, HIST UST, and GeoTracker databases, one 10,000-gallon diesel UST was identified at the site. The UST was reportedly installed in 1977. As discussed above and in Section 4.1.1, SBCFD records indicated that Intravaia Rock & Sand was issued a permit to remove one UST on March 16, 1989. The tank was rinsed by Containerized Chemical Disposal using 150 pounds dry ice. The tank was manifested to Gibson Refining – Bakersfield (Manifest. # 88178197). SDFCD records indicated that soil samples were taken and lab results for fuel hydrocarbons were reportedly non-detected. No further records regarding the 10,000-gallon UST including location of tank or laboratory data were identified. Based on the removal of the tank, the analytical results, and the regulatory closure, the former UST is considered a historical recognized environmental condition and no further action is considered necessary.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

Immediately Surrounding Properties	
North:	West Foothill Boulevard, followed by Road Runner Donuts (1801 West Foothill Boulevard), Route 66 Auto Center/U-Haul (1775 West Foothill Boulevard), a multi-tenant commercial building (1743-1747 West Foothill Boulevard), and residential properties 1727-1735(1801 West Foothill Boulevard).
South:	VCI Construction, LLC (1921 West 11th Street), Fence Craft of Upland (1801 West 11th Street), Upland Sports Arena (1721 West 11th Street), and Exquisite Ponds and Gardens (1709 West 11th Street).
East:	Goodwill (1760 West Foothill Boulevard) and a multi-tenant commercial buildings (1710 West Foothill Boulevard).
West:	Route 66 Rentals (1784 West Foothill Boulevard).

According to information obtained from the California State Water Resources Control Board online database, GeoTracker, for aa nearby release (Case Number T0607100633 – Upland City Yard, 1370 North Benson Avenue) and topographic map interpretation, groundwater in the vicinity of the subject property is estimated at depths greater than 150 feet below ground surface (bgs) and flows toward the south.

Findings

A *recognized environmental condition (REC)* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any recognized environmental conditions during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC 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. The following was identified during the course of this assessment:

- Partner did not identify any controlled recognized environmental conditions during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to 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. The following was identified during the course of this assessment:

- Two former USTs were removed from the subject property in 1989 and 1990. Based on the removal of the tanks, the analytical results, and the regulatory closure, the former USTs are considered a HREC and no further action is considered necessary.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- A septic tank is located adjacent to the south side of the office building on the southwest portion of the subject property. The septic systems should be abandoned and removed under local requirements when no longer in use.
- Due to the age of the subject property buildings, there is a potential that asbestos-containing material (ACM) and/or lead-based paint (LBP) are present. Suspect ACMs would need to be sampled to confirm the presence or absence of asbestos prior to any demolition activities that would impact them to prevent potential exposure to workers. Prior to demolition, ACMs will require abatement in accordance with local regulations.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 1770-1780 West Foothill Boulevard in the City of Upland, San Bernardino County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed evidence of historical recognized environmental conditions and environmental issues in connection with the subject property. Based on the conclusions of this assessment, Partner recommends no further investigation of the subject property at this time.

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1.0 INTRODUCTION

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) for the property located at 1770-1780 West Foothill Boulevard in the City of Upland, San Bernardino County, California (the "subject property"). Any exceptions to, or deletions from, this scope of work are described in the report.

1.1 Purpose

The purpose of this ESA is to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E1527-13) affecting the subject property that: 1) constitute or result in a material violation or a potential material violation of any applicable environmental law; 2) impose any material constraints on the operation of the subject property or require a material change in the use thereof; 3) require clean-up, remedial action or other response with respect to Hazardous Substances or Petroleum Products on or affecting the subject property under any applicable environmental law; 4) may affect the value of the subject property; and 5) may require specific actions to be performed with regard to such conditions and circumstances. The information contained in the ESA Report will be used by Client to: 1) evaluate its legal and financial liabilities for transactions related to foreclosure, purchase, sale, loan origination, loan workout or seller financing; 2) evaluate the subject property's overall development potential, the associated market value and the impact of applicable laws that restrict financial and other types of assistance for the future development of the subject property; and/or 3) determine whether specific actions are required to be performed prior to the foreclosure, purchase, sale, loan origination, loan workout or seller financing of the subject property.

This ESA was performed to permit the *User* to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "*landowner liability protections*," or "*LLPs*"). ASTM Standard E1527-13 constitutes "*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

1.2 Scope of Work

The scope of work for this ESA is in accordance with the requirements of ASTM Standard E1527-13. This assessment included: 1) a property and adjacent site reconnaissance; 2) interviews with key personnel; 3) a review of historical sources; 4) a review of regulatory agency records; and 5) a review of a regulatory database report provided by a third-party vendor. Partner contacted local agencies, such as environmental health departments, fire departments and building departments in order to determine any current and/or former hazardous substances usage, storage and/or releases of hazardous substances on the subject property.

Additionally, Partner researched information on the presence of activity and use limitations (AULs) at these agencies. As defined by ASTM E1527-13, AULs are the legal or physical restrictions or limitations on the use of, or access to, a site or facility: 1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the subject property; or 2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls (IC/ECs), are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or groundwater on the property.

If requested by Client, this report may also include the identification, discussion of, and/or limited sampling of asbestos-containing materials (ACMs), lead-based paint (LBP), mold, and/or radon.

1.3 Limitations

Partner warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Partner believes that the information obtained from the record review and the interviews concerning the subject property is reliable. However, Partner cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No other warranties are implied or expressed.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This report is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

This practice does not address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provisions of the LLPs. Further, this report does not intend to address all of the safety concerns, if any, associated with the subject property.

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, and lead in drinking water. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues. If specifically requested by the Client, these non-scope issues are discussed in Section 6.3.

1.4 User Reliance

Magellan Value Partners engaged Partner to perform this assessment in accordance with an agreement governing the nature, scope and purpose of the work as well as other matters critical to the engagement. All reports, both verbal and written, are for the sole use and benefit of Magellan Value Partners. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with Partner granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against Partner, its officers, employees, vendors, successors or assigns. Any such unauthorized user shall be responsible to protect, indemnify and hold Partner, Client and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such Use. Unauthorized use of this report shall constitute acceptance of and commitment to these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted. Additional legal penalties may apply.

This report has been completed under specific Terms and Conditions relating to scope, relying parties, limitations of liability, indemnification, dispute resolution, and other factors relevant to any reliance on this report. Any parties relying on this report do so having accepted Partner's standard Terms and Conditions, a copy of which can be found at http: / www.partneresi.com/terms-and-conditions.php.

1.5 Limiting Conditions

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM E1527-13.

Specific limitations and exceptions to this ESA are more specifically set forth below:

- Interviews with past owners, operators and occupants were not reasonably ascertainable and thus constitute a data gap. Based on information obtained from other historical sources (as discussed in Section 3.0), this data gap is not expected to alter the findings of this assessment.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The subject property at 1770-1780 West Foothill Boulevard in Upland, California is located on the south side of West Foothill Boulevard, west of North Benson Avenue. According to the San Bernardino County Assessor, the subject property is identified by Assessor's Parcel Numbers (APNs) 1007-091-01-0000, 1007-091-02-0000, and 1007-091-03-0000 and ownership is currently vested in Ronald & Michele Spears, VV Trust 04/03/14.

Please refer to Figure 1: Site Location Map, Figure 2: Site Plan, Figure 3: Topographic Map, and Appendix A: Site Photographs for the location and site characteristics of the subject property.

2.2 Current Property Use

The subject property consists of three parcels of land. The site is roughly divided in half by a fence creating two lease areas at 1770 and 1780 West Foothill Boulevard. A description of the two lease areas is presented below:

- 1770 West Foothill Boulevard: The eastern portion of the subject property is identified by APN 1007-091-02-0000 and 1007-091-02-0000. The eastern portion of the subject property is currently unoccupied and consists of vacant, unpaved land. A pole sign is located on the northeast corner of the subject property.
- 1780 West Foothill Boulevard: The western portion of the subject property is identified by APN 1007-091-01-0000 and is occupied by Mountain Avenue Bees, Inc. The southern portion of the parcel is currently developed three buildings including a 2-story office building; a production & storage building located on the southwest corner of the site; and a storage building located on the southern boundary of the site. A septic tank is located adjacent to the south side of the office building. A concrete vault (associated with a former sawdust collector for a bandsaw used by former tenant Fence Craft) is located further south of the office building.

  The production & storage building is divided into six separate but connected rooms used for honey production activities (honey extraction, wax separator, bee box assembly, bee box cleaning, and honey storage in 55-gallon food grade drums). The northern most room contains honey extraction equipment. Two floor drains were installed by Bees Mountains in the room for wash down activities. The floor drains are connected to the onsite septic system located further east of the room. A former sink utilized by a former tenant was formerly located adjacent to the east of the southern-most room, along the southwest corner of the subject property. Wastewater discharged to the southwest corner of the site and flowed to the adjacent property to the southwest.

  The storage building located on the southern boundary of the site is used to store bee boxes. No electrical service is provided to this building. A linear, stormwater ribbon drain is located on the north side of the building. Stormwater from this drain discharges to the southwest corner of the site and flows to the adjacent property to the southwest.

Access to the subject property is via an entrance along West Foothill Boulevard.

2.3 Current Use of Adjacent Properties

The subject property is located within a mixed commercial, industrial, retail, and residential area of San Bernardino County. During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

Immediately Surrounding Properties

North: West Foothill Boulevard, followed by Road Runner Donuts (1801 West Foothill Boulevard), Route 66 Auto Center/U-Haul (1775 West Foothill Boulevard), a multi-tenant commercial building (1743-1747 West Foothill Boulevard), and residential properties 1727-1735(1801 West Foothill Boulevard).

South: VCI Construction, LLC (1921 West 11th Street), Fence Craft of Upland (1801 West 11th Street), Upland Sports Arena (1721 West 11th Street), and Exquisite Ponds and Gardens (1709 West 11th Street).

East: Goodwill (1760 West Foothill Boulevard) and a multi-tenant commercial buildings (1710 West Foothill Boulevard).

West: Route 66 Rentals (1784 West Foothill Boulevard).

2.4 Physical Setting Sources

2.4.1 Topography

The United States Geological Survey (USGS) *Ontario, California* Quadrangle 7.5-minute series topographic map was reviewed for this ESA. According to the contour lines on the topographic map, the subject property is located at approximately 1,344 feet above mean sea level (MSL). The contour lines in the area of the subject property indicate the area is sloping toward the south.

A copy of the most recent topographic map is included as Figure 3 of this report.

2.4.2 Hydrology

According to information obtained from the California State Water Resources Control Board online database, GeoTracker, for aa nearby release (Case Number T0607100633 – Upland City Yard, 1370 North Benson Avenue) and topographic map interpretation, groundwater in the vicinity of the subject property is estimated at depths greater than 150 feet below ground surface (bgs) and flows toward the south.

The nearest surface water in the vicinity of the subject property is the San Antonio Creek Channel located approximately 0.58-mile west of the subject property. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the subject property during this assessment.

2.4.3 Geology/Soils

The site is located in the Peninsular Ranges geomorphic province. The Peninsular Ranges are a northwest-southwest oriented complex of blocks separated by similarly trending faults. They extend from the Transverse Ranges and the Los Angeles Basin south to the Mexican border and beyond to the tip of Baja California and are bounded on the east by the Colorado Desert and the Gulf of California. The Peninsular Ranges contain minor Jurassic and extensive Cretaceous igneous rocks associated with the Nevadan plutonism. Marine Cretaceous sedimentary rocks are well represented and post-Cretaceous rocks form a restricted veneer of volcanic, marine, and nonmarine sediments.

Based on information obtained from the USDA Natural Resources Conservation Service Web Soil Survey online database, the subject property is mapped as Soboba gravelly loamy sand. The series consists of somewhat excessively drained alluvium derived from granite. Slopes range from 0 to 9 percent.

2.4.4 Flood Zone Information

Partner performed a review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency. According to Community Panel Number 06071C8606H, dated August 28, 2008, the subject property appears to be located in Zone X, an area located outside of the 100-year and 500-year flood plains.

A copy of the reviewed flood map is not included in Appendix B of this report.

3.0 HISTORICAL INFORMATION

Partner obtained historical use information about the subject property from a variety of sources. Information regarding past land use was obtained by a review of historical aerial photographs, historical Sanborn Fire Insurance maps, city directories, historical topographic maps, and previous reports of the subject property and surrounding area obtained from Environmental Data Resources (EDR). Copies of the historical resources are included in Appendix B. A chronological listing of the historical data found is summarized in the table below.

Date	Scale or Address	Source	Summary
1897, 1900, 1903	1:62,500 1:24,000	Topographic Map	Various improved roads and railroad lines are shown throughout the surrounding area. West Foothill Boulevard is located adjacent to the north and Topeka and Santa Fe railroad tracks are located further to the south. Several drainage washes are located in the vicinity of the subject property.
1928	1"=500'	Aerial Photograph	The subject property and the adjacent properties to the north, west, and south appear to be undeveloped and/or vacant land. A drainage wash appears to cross the subject property and adjacent properties. West Foothill Boulevard is located adjacent to the north. Two small structures are located adjacent to the east. Agriculturally developed land is visible further to the southwest and east.
1933, 1942, 1944, 1954	1:62,500 1:24,000	Topographic Map	The subject property is depicted as vacant land or agriculturally developed land. West Foothill Boulevard is located adjacent to the north and West 11th Street is located further south. A water tank is depicted to the west. By 1954, Cable Claremont Airport is located further to the north.
1938	1"=500'	Aerial Photograph	The subject property appears to be undeveloped and/or vacant land. West Foothill Boulevard is located adjacent to the north. A water tank is depicted to the west. Surrounding properties consist of cleared land to the north, a water tank to the west, agriculturally developed land to the south, and small structures to the east.

Date	Scale or Address	Source	Summary
1949, 1953	1"=500'	Aerial Photograph	The majority of the subject property appears to be undeveloped and/or vacant land. A small driveway from West Foothill Boulevard leading to several small structures are visible on the western side of the subject property. Surrounding properties consist of a water tank and small structures to the west, agriculturally developed land to the south, and small structures to the east and north.
1959, 1964, 1966	1"=500'	Aerial Photograph	Several structures are located within a fenced area on the northwest corner of the subject property. The remainder of the subject property appears to be vacant land. Commercial properties appear to be located adjacent to the north, east, and Agriculturally developed land is located to the south. By 1964, the business located on the northwest corner has expanded to the south side of the site. The eastern portion of the subject property appears to be vacant land with a few parked cars along West Foothill Boulevard.
1964-2004	1780 W. Foothill Blvd.	City Directories	Fence Craft of Upland, Luna Jesus, Fence Craft Fence Co.
1967, 1973, 1976, 1981	1:24,000	Topographic Map	The subject property is developed with two small buildings on the northwest corner of the subject property. West Foothill Boulevard is located adjacent to the north. Small structures are located adjacent to the north, east and west. Agriculturally developed land is located to the south. By 1973, an additional structure appears to located on/or adjacent to the northeast corner of the subject property. By 1981, an additional structure appears to located on the southwest corner of the subject property.
1972, 1975	1"=500'	Aerial Photograph	The subject property appears to occupied by at least two businesses on the eastern and western sides of the site. The western portion of the subject property is developed with several structures northwest corner of the site.

Date	Scale or Address	Source	Summary
			The eastern portion of the subject property is developed with a structure on the northeast corner of the subject property. An oval shaped dirt road appears to be located to the south of the building, followed by vacant land. Commercial properties appear to be located adjacent to the north, east, and Agriculturally developed land is located to the south. By 1975, the oval track has been replaced with what appears to be stockpiles of soil.
1975-1985	1770 W. Foothill Blvd.	City Directories	Intravaia Rock/Sand
1985, 1989, 1990, 1994, 2002, 2005, 2009, 2012, 2016	1"=500'	Aerial Photograph	The subject property appears to occupied by at least two businesses on the eastern and western sides of the site. The existing three structures are located on the southwest portion of the subject property. Additional structures are located on the northeast and northwest corners of the site. Several stockpiles of soil appears to be present on the eastern portion of the site. Surrounding properties consist of commercial properties to the north, east, west, and southwest. By 1989, the eastern portion of the subject property appears to be vacant. The structures on the northwest corner of the subject property appears to have been removed. By 2002-2016, the eastern portion of the site appears to be mostly vacant, occasionally leased or used for storage.
2000-present	1780 W. Foothill Blvd.	Site Interview	Mountain Avenue Bees, Inc.
2012	1:24,000	Topographic map	Existing street configuration is shown.

According to available historical sources, the subject property was undeveloped land as early as 1897 to 1938. From 1949 to 1953, a small driveway from West Foothill Boulevard leading to several small structures was visible on the western side of the subject property. By 1964, the subject property was developed with two small buildings on the northwest corner of the site. By 1972 and 1975, the subject property appears to be occupied by at least two businesses on the eastern and western sides of the site. The eastern portion of the subject property was developed with a structure on the northeast corner of the site. By 1981, an additional structure appeared to be located on the southwest corner of the site. By 1985, the existing three structures were located on the southwest portion of the subject property. Several stockpiles of soil appear to be present on the eastern portion of the site. By 1989, the eastern portion of the subject property appears to be vacant with the structure on the northeast corner removed. The structures on the northwest corner of the site appeared to have been removed. Tenants on the subject property include Fence Craft of Upland, Luna Jesus, Fence Craft Fence Co. (1964-2004); Intravaia Rock/Sand (1975-1985), and Mountain Avenue Bees, Inc. (2000-present).

4.0 REGULATORY RECORDS REVIEW

4.1 Regulatory Agencies

4.1.1 Public Works

Regulatory Agency Data	
Name of Agency:	San Bernardino County Fire Department (SBCFD), Hazardous Materials Division (HMD)
Point of Contact:	Records Coordinator
Agency Address:	620 South E Street, San Bernardino, CA 92415
Agency Phone Number:	(909) 386-8468
Date of Contact:	January 11, 2021
Method of Communication:	Mailed Request
Summary of Communication:	

Partner reviewed the following SBCFD records:

Inactive permit facilities:

- Intravaia Rock & Sand (Est. # 89017873) at 1770 West Foothill Boulevard was issued a Hazardous Waste Generator Permit, a Hazardous Materials Handler Underground Storage Tank (UST) Permit, and an UST Permit.
- Fence Craft of Upland (Est. # 86010427) at 1780 West Foothill Boulevard was issued a UST Permit and a Hazardous Materials Handler UST Only Permit.

Permits to remove/install/modify underground storage tanks:

- Intravaia Rock & Sand (Est. # 89017873) at 1770 West Foothill Boulevard was issued a permit to remove one UST on March 16, 1989. The tank was rinsed by Containerized Chemical Disposal using 150 pounds dry ice. The tank was manifested to Gibson Refining – Bakersfield (Manifest. # 88178197). SDFCD records indicated that soil samples were taken and lab results for fuel hydrocarbons were reportedly non-detected. No further records regarding the 10,000-gallon UST including location of tank or laboratory data were identified.
- Fence Craft of Upland (Est. # 86010427) at 1780 West Foothill Boulevard was issued a permit to remove one UST on March 20, 1990. SDFCD records indicate "backfill approved on 03/26/1990 upon soil sample test results.

Additional Records for 1780 West Foothill Boulevard:

- A May 8, 1986 letter from Disposal Control Service, Inc. indicated that the product line for an onsite 2,000-gallon UST was tested at Fence Craft (1780 West Foothill Boulevard).
- A County of San Bernardino Environmental Health Services (EHS) permit was issued to Fence Craft of Upland, Inc. (1780 West Foothill Boulevard) for Hazardous Material Handler, Underground Tank Only. The permit was renewed in 1986, 1987, 1988, and 1990.

- In 1990, a County of San Bernardino Department of EHS permit was issued to Fence Craft of Upland, Inc. (1780 West Foothill Boulevard) for the construction and/or removal of underground storage facility. An application for the removal of UST was completed on February 9, 1990 for the removal of an 1,950-gallon supreme leaded gas steel UST, with submerged fill. One UST was removed. Sample results were analyzed using EPA Method 8020 and 8015. CalScience Environmental Labs reports that two soil samples were analyzed for gasoline and diesel (EPA Method 8015A), Benzene, Toluene, Ethylbenzene, Total Xylenes and others (EPA Method 8020). Gasoline and diesel were not detected above the laboratory detection limit (5 milligram per kilograms (mg/kg). Benzene (250 micrograms per kilogram (µg/kg), Toluene (350 µg/kg), Ethylbenzene (300 µg/kg), and Total Xylenes (3,160 µg/kg-image not clear) in Sample 1. Only Total Xylenes (50 µg/kg) was detected above the laboratory detection limit (50 µg/kg) in Sample 2. A sketch depicts the UST location as adjacent to a fence, northwest of an onsite building. On March 27, 1990, EHS reviewed reports submitted on March 26, 1990 by CalScience Environmental Labs and concluded further investigation was not warranted at the time. A copy of the closure letter is provided in Appendix B.
- A Supplemental Inspection Report dated June 12, 2002 for Fence Craft of Upland, Inc. indicated the facility sold and installed custom metal and wood fencing. A small quantity of compressed gases used for welding or cutting (less than 200 foot per cylinder) and propane was observed onsite. No maintenance of vehicles was conducted onsite. No permits were required at the time. It was noted that the two buildings in the back of the property was subleased to beekeepers to store bee boxes, equipment, and honey in 55-gallon drums. No violations were noted.

SBCFD does not have records of active permit facilities, Haz Mat Incident Response Activity, or site remediation associated with the subject property.

4.1.2 Air Pollution Control Agency

Regulatory Agency Data	
Name of Agency:	South Coast Air Quality Management District (SCAQMD)
Point of Contact:	http://www.aqmd.gov/home/tools/public/find
Agency Address:	21865 Copley Drive, Diamond Bar, California 91765
Agency Phone Number:	(909) 396-2000
Date of Contact:	January 11, 2021
Method of Communication:	Online Database Query
Summary of Communication:	

Partner researched the South Coast Air Quality Management District (SCAQMD) online database for information regarding any Permits to Operate (PTO), Notices of Violation (NOV), or Notices to Comply (NTC) records for the subject property related to air emission equipment.

The following records were found for the subject property:

Facility ID	Facility Name/Address	Status	Equipment Listed	NOVs/NTC
30406	Fence Craft of Upland Inc./1780 W. Foothill Blvd.	Out of Business	Permit for serv stat storage & dispensing gasoline. Issue date was not list.	No NOVs or NTCs were identified.

4.1.3 Regional Water Quality Agency

Regulatory Agency Data	
Name of Agency:	Regional Water Quality Control Board (RWQCB)
Point of Contact:	https://GeoTracker.waterboards.ca.gov/
Agency Address:	3737 Main Street, Suite 500, Riverside, California 92501
Agency Phone Number:	(951)781-4499
Date of Contact:	January 11, 2021
Method of Communication:	Online Database Query and Faxed Records Request
Summary of Communication:	

The subject property was not identified on the RWQCB GeoTracker online database. However, as discussed in Section 4.2.2, a GeoTracker link was provided in the EDR Database Report that identified the following Underground storage tanks (USTs) at the subject property:

- One 1,800-gallon unleaded gasoline UST was identified at 1780 W. Foothill Blvd. UST installation date not provided (Note that SBCFD records have also noted the capacity of the UST as 1,950-gallon and 2,000-gallon).

- One 10,000-gallon diesel UST was identified at 1770 W. Foothill Blvd. The UST was reportedly installed in 1977.

4.1.4 Department of Toxic Substances Control

Regulatory Agency Data	
Name of Agency:	California Department of Toxic Substances Control (DTSC)
Point of Contact:	https://www.envirostor.dtsc.ca.gov/public/ and http://hwts.dtsc.ca.gov/
Agency Address:	1001 I Street, Sacramento, California 95814
Agency Phone Number:	(800) 728-6942
Date of Contact:	January 11, 2021
Method of Communication:	Faxed Records Request
Summary of Communication:	

The subject property was not identified in the online DTSC EnviroStor database.

The subject property was identified in the online Hazardous Waste Tracking System database.

ID Number	Facility Name/Address	Status	Inactive Date	Waste
CAC002570972	Mountain Ave. Bees/1780 W. Foothill Blvd. (mailing address)	Inactive	June 22, 2004	No hazardous waste records were listed.
CAC000252697	1XFenceCraft/1780 W. Foothill Blvd.	Inactive	October 25, 2000	No hazardous waste records were listed.

4.1.5 Building Department

Regulatory Agency Data	
Name of Agency:	City of Upland Building Department (UBD)
Point of Contact:	https://ci.upland.ca.us/building-and-safety
Agency Address:	460 N. Euclid Avenue, Upland, CA 91786
Agency Phone Number:	(909) 931-4100
Date of Contact:	January 15, 2021
Method of Communication:	Telephone
Summary of Communication:	Partner reviewed available building permits, see table below. No records were identified for 1780 W. Foothill Blvd.

Building Records Reviewed for Subject Property		
Year(s)	**Owner/Applicant**	**Description**
1988	Intravaia Rock & Sand	Electrical Permit for 1770 W. Foothill Blvd.

4.1.6 Planning Department

Regulatory Agency Data	
Name of Agency:	City of Upland Planning Department
Point of Contact:	https://ci.upland.ca.us/zoning-code-map
Agency Address:	460 N. Euclid Avenue, Upland, CA 91786
Agency Phone Number:	(909) 931-4100
Date of Contact:	January 11, 2021
Method of Communication:	Online Database Query
Summary of Communication:	

The subject property is zoned Commercial/Industrial Mixed Use (C/I-MU) by the City of Upland.

4.1.7 Oil & Gas Exploration

Regulatory Agency Data	
Name of Agency:	California Geologic Energy Management Division (CalGEM)
Point of Contact:	http://www.conservation.ca.gov/dog/Pages/Wellfinder.aspx
Agency Address:	801 K Street, MS 24-01, Sacramento, California 95814
Agency Phone Number:	(916) 322-1080
Date of Contact:	January 11, 2021

Method of Communication:	Online Database Query
Summary of Communication:	

According to CalGEM, no oil or gas wells are located on or adjacent to the subject property.

4.1.8 Assessor's Office

Regulatory Agency Data	
Name of Agency:	San Bernardino County Office of the Assessor (SBCOA)
Point of Contact:	http://www.sbcounty.gov/assessor/pims
Agency Address:	172 W. Third Street, San Bernardino, CA 92415
Agency Phone Number:	(909) 387-8307
Date of Contact:	January 11, 2021
Method of Communication:	Online Database Query
Summary of Communication:	

According to records reviewed, the subject property is identified by Assessor Parcel Numbers (APNs) 1007-091-01-0000, 1007-091-02-0000, and 1007-091-03-0000. The parcels are owned by Spears, Ronald & Michele RV Trust 04/03/14. The property was acquired on July 26, 2018.

Copies of pertinent documents obtained by Partner from the above-referenced agencies are included in Appendix B.

4.2 Mapped Database Records Search

Information from standard federal, state, county, and city environmental record sources was provided by Environmental Data Resources, Inc. (EDR). Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. The information contained in this report was compiled from publicly available sources and the locations of the sites are plotted utilizing a geographic information system, which geocodes the site addresses. The accuracy of the geocoded locations is approximately +/-300 feet.

Using the ASTM definition of migration, Partner considers the migration of hazardous substances or petroleum products in any form onto the subject property during the evaluation of each site listed on the radius report, which includes solid, liquid, and vapor.

4.2.1 Regulatory Database Summary

Radius Report Data				
Database	**Search Radius (mile)**	**Subject Property**	**Adjacent Properties**	**Sites of Concern**
Federal NPL or Delisted NPL Site	1.00	N	N	N
Federal CERCLIS Site	0.50	N	N	N
Federal CERCLIS-NFRAP Site	0.50	N	N	N
Federal RCRA CORRACTS Facility	1.00	N	N	N
Federal RCRA TSDF Facility	0.50	N	N	N
Federal RCRA Generators Site (LQG, SQG, CESQG)	0.25	N	**Y**	N
Federal IC/EC Registries	0.50	N	N	N
Federal ERNS Site	Subject Property	N	N	N
State/Tribal Equivalent NPL	1.00	N	N	N
State/Tribal Equivalent CERCLIS	1.00	N	N	N
State/Tribal Landfill/Solid Waste Disposal Site	0.50	N	N	N
State/Tribal Leaking Storage Tank Site	0.50	N	N	N
State/Tribal Registered Storage Tank Sites (UST/AST)	0.25	**Y**	**Y**	N
State/Tribal Voluntary Cleanup Sites (VCP)	0.50	N	N	N
State/Tribal Spills	0.50	N	N	N
Federal Brownfield Sites	0.50	N	N	N
State Brownfield Sites	0.50	N	N	N
HAZNET	Subject Property	**Y**	N	N
EDR MGP	Varies	N	N	N
EDR US Hist Auto	Varies	N	**Y**	N
EDR US Hist Cleaners	Varies	N	N	N

4.2.2 Subject Property Listings

The agency database report obtained from Environmental Data Resources, Inc. (EDR) identified the subject property as:

- **Fence Craft of Upland Inc. (EDR Map ID: A1, A3, A6)**, listed at 1780 West Foothill Boulevard, is identified in the SWEEPS UST, CA FID UST, HIST UST, HAZNET, and HWTS databases. According to the SWEEPS UST, HIST UST, and GeoTracker databases, one 1,800-gallon unleaded gasoline UST was identified at the site (SBCFD records have also noted the capacity of the UST as 1,950-gallon and 2,000-gallon). The installation date was listed as unknown. As discussed in Section 4.1.1, Fence Craft of Upland remove one 1,950-gallon gasoline steel UST on March 20, 1990. On March 27, 1990, EHS (currently known as SBCFD) reviewed reports submitted on March 26, 1990 by CalScience Environmental Labs and concluded further investigation was not warranted at the time. Based on the removal of the tank, the analytical results, and the regulatory closure, the former UST is considered a historical recognized environmental condition and no further action is considered necessary.

- **Intravaia Rock & Sand (EDR Map ID: A2, A4, A5)**, listed at 1770 West Foothill Boulevard, is identified in the HIST UST, SWEEPS UST, CA FID UST, and EMI databases. According to the SWEEPS UST, HIST UST, and GeoTracker databases, one 10,000-gallon diesel UST was identified at the site. The UST was reportedly installed in 1977. As discussed in Section 4.1.1, SBCFD records indicated that Intravaia Rock & Sand was issued a permit to remove one UST on March 16, 1989. The tank was rinsed by Containerized Chemical Disposal using 150 pounds dry ice. The tank was manifested to Gibson Refining – Bakersfield (Manifest. # 88178197). SDFCD records indicated that soil samples were taken and lab results for fuel hydrocarbons were reportedly non-detected. No further records regarding the 10,000-gallon UST including location of tank or laboratory data were identified. Based on the removal of the tank, the analytical results, and the regulatory closure, the former UST is considered a historical recognized environmental condition and no further action is considered necessary.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

4.2.3 Adjacent Property Listings

The EDR Report identified the following facilities adjacent to the subject property:

- **Joel Gillingwators, Mohs Robert (EDR Map ID: A7-A10)**, listed at 1784 West Foothill Boulevard, is located adjacent to the west and hydrologically cross-gradient of the subject property. The facility is identified in the HIST UST, San Bernardino County Permit, EDR Historical Auto, SWEEPS UST, and CA FID UST databases. According to the SWEEPS UST, HIST UST, and GeoTracker databases, one 2,000-gallon fuel UST was identified at the site. The UST was reportedly installed in 1980. Tenants including Mini Truck Shop, A&M Towing & Body Shop, and Route 66 Foothill LLC were identified as a General Automotive Repair Shops in 1989-1993 and a Gasoline Service Stations in 2012. Based on the regulatory status, cross-gradient direction, and lack of listings in other databases indicating violations and/or a release, these listings are not considered to have created an environmental concern to the subject property.
- **Upland Mercedes Repair (EDR Map ID: B11),** listed at 1785 West Foothill Boulevard, is located adjacent to the north and hydrologically up-gradient of the subject property. The facility is identified in the San Bernardino County Permit database. The facility has two inactive San Bernardino County Permits that expired in 2011. Based on the regulatory status, this listing is not considered to have created an environmental concern to the subject property.
- **RTR Auto Sales (EDR Map ID: C12)**, listed at 1747 West Foothill Boulevard, is located adjacent to the north and hydrologically up-gradient of the subject property. The facility is identified in the RCRA-NonGen database. No RCRA violations are listed. Based on the regulatory status, this listing is not considered to have created an environmental concern to the subject property.

- **Westport Upland Self Storage LLC (EDR Map ID: B30)**, listed at 1801 West Foothill Boulevard, is located adjacent to the northwest and hydrologically up-gradient of the subject property. The facility is identified in the RCRA-NonGen database. No RCRA violations are listed. Based on the regulatory status, this listing is not considered to have created an environmental concern to the subject property.
- **Upland Automotive (EDR Map ID: B13, B14)**, listed at 1803 West Foothill Boulevard, is located adjacent to the northwest and hydrologically cross-gradient of the subject property. The facility is identified in the RCRA-SQG, RCRA-NonGen, San Bernardino County Permit, CERS, CERS Haz Waste, ECHO, and FINDS databases. No RCRA violations are listed. The facility has two active San Bernardino County Permits that expire in 2021 and one inactive permit expired in 2011. San Bernardino County Fire Department last inspected the facility in January 2019 and one violation was issued for failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. Based on the regulatory status, these listings are not considered to have created an environmental concern to the subject property.
- **1 Stop Auto Care, Magna and Magna, Benri Motor, Upland 1 Auto & Mach, Roy's Auto Repair, Underground Automotive, Upland Enginetek1, Valley Radiator, Toyota Specialties, Reid's GM Auto Service, Ledezma Auto Body, Toylexura, Repair Solutions, Honda Nissan Special (EDR Map ID: D15-D28, B29)**, listed at 1710 West Foothill Boulevard, is located adjacent to the east and hydrologically cross-gradient of the subject property. The facility is identified in the RCRA-SQG, RCRA-NonGen, San Bernardino County Permit, HWTS, ECHO, and FINDS databases. No RCRA violations are listed. The HWTS database described the facility operation as General Automotive Repair. Based on site observations, the site is occupied by multiple auto repair facilities. Oily stained soil from stormwater runoff from this facility was observed on the southeastern boundary of the subject property. Based on the regulatory status, these listings are not considered to have created an environmental concern to the subject property.
- **A Foothill Auto Serve, Flieder Maus, Empire Auto Collision Center, Meija Auto Body Shop, Route 66 Auto Repair, (EDR Map ID: C31-C37)**, listed at 1775 West Foothill Boulevard, is located adjacent to the north and hydrologically up-gradient of the subject property. The facility is identified in the RCRA-SQG, RCRA-NonGen, San Bernardino County Permit, HAZNET, HWTS, CERS, CERS Haz Waste, and EDR Historical Auto databases. No RCRA violations are listed. Multiple tenants were identified as a General Automotive Repair Shops in 1977-2014. Route 66 Auto Repair and Meija Auto Body Shop have an active San Bernardino County Permit. San Bernardino County Fire Department last inspected the facility in January 2019 and violations were noted for failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste and failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. Based on the regulatory status, cross-gradient direction, and lack of listings in other databases indicating violations and/or a release, these listings are not considered to have created an environmental concern to the subject property.

- **Berry Construction, VCI Telecom, VCI Construction (EDR Map ID: E41-E43)**, listed at 1921 11th Street, is located adjacent to the south and hydrologically down-gradient of the subject property. The facility is identified in the RCRA-SQG, HIST UST, HAZNET, HWTS, FINDS, ECHO, SWEEPS UST, and CA FID UST databases. No RCRA violations are listed. According to the SWEEPS UST, HIST UST, and GeoTracker databases, two USTs installed in 1982 were was identified at the site. Based on the regulatory status, cross-gradient direction, and lack of listings in other databases indicating violations and/or a release, these listings are not considered to have created an environmental concern to the subject property.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

4.2.4 Sites of Concern Listings

No sites of concern are identified in the regulatory database report.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

4.2.5 Orphan Listings

Partner reviewed EDR's Orphan Summary, which is a listing of sites that have not been geocoded based on lack of sufficient data regarding their exact location within the general area. The subject property was not identified as an Unmapped Site.

Thirteen orphan listings are identified in the regulatory database report. No orphan listings of concern were identified.

A copy of the regulatory database report is included in Appendix C of this report.

5.0 USER PROVIDED INFORMATION AND INTERVIEWS

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), the *User* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The *User* should provide the following information to the *environmental professional*. Failure to provide this information could result in a determination that *all appropriate inquiries* is not complete. The *User* is asked to provide information or knowledge of the following:

- Review Title and Judicial Records for Environmental Liens and AULs
- Specialized Knowledge or Experience of the User
- Actual Knowledge of the User
- Reason for Significantly Lower Purchase Price
- Commonly Known or *Reasonably Ascertainable* information
- Degree of Obviousness
- Reason for Preparation of this Phase I ESA

Fulfillment of these user responsibilities is key to qualification for the identified defenses to CERCLA liability. Partner requested our Client to provide information to satisfy User Responsibilities as identified in Section 6 of the ASTM guidance.

Pursuant to ASTM E1527-13, Partner requested the following site information from Magellan Value Partners (User of this report).

User Responsibilities				
Item	**Provided By User**	**Not Provided By User**	**Discussed Below**	**Does Not Apply**
Environmental Pre-Survey Questionnaire			**X**	
Title Records, Environmental Liens, and AULs			**X**	
Specialized Knowledge			**X**	
Actual Knowledge			**X**	
Valuation Reduction for Environmental Issues			**X**	
Identification of Key Site Manager	**Section 5.1.3**			
Reason for Performing Phase I ESA	**Section 1.1**			
Prior Environmental Reports			**X**	
Other		**X**		

5.1 Interviews

5.1.1 Interview with Owner

Mr. Ron Spears, owner of Mountain Avenue Bees, Inc. and subject property owner, was not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

According to Mr. Spears, the subject property has been owned by his family since at least 1982. Currently, the only onsite tenant is Mountain Avenue Bees, Inc., which he owns. Former tenants have included Fence Craft of Upland Inc. (moved offsite 7-8 years ago) and Intravaia Rock & Sand (moved offsite approximately 20 years ago). Both tenants operated USTs which have reportedly been removed. Mr. Spears indicated that Fence Craft's UST was formerly located along the central west boundary of the subject property. Mr. Spears indicated that he thought Intravaia's tank was formerly located near northeastern corner of the subject property. Mr. Spears further stated that there are no current USTs, clarifiers, oil/water separators, groundwater monitoring wells, or hazardous substance use/storage/ generation on the subject property to the best of his knowledge. In the central

5.1.2 Interview with Report User

Please refer to Section 5.2 below for information requested from the Report User.

5.1.3 Interview with Key Site Manager

Refer to Section 5.1.5.

5.1.4 Interviews with Past Owners, Operators and Occupants

Interviews with past owners, operators and occupants were not conducted since information regarding the potential for contamination at the subject property was obtained from other sources.

5.1.5 Interview with Others

As the subject property is not an abandoned property as defined in ASTM 1527-13, interview with others were not performed.

5.2 User Provided Information

5.2.1 Title Records, Environmental Liens, and AULs

Partner was not provided with title records or environmental lien and AUL information for review as part of this assessment.

5.2.2 Specialized Knowledge

No specialized knowledge of environmental conditions associated with the subject property was provided by the User at the time of the assessment.

5.2.3 Actual Knowledge of the User

No actual knowledge of any environmental lien or AULs encumbering the subject property or in connection with the subject property was provided by the User at the time of the assessment.

5.2.4 Valuation Reduction for Environmental Issues

No knowledge of valuation reductions associated with the subject property was provided by the User at the time of the assessment.

5.2.5 Commonly Known or Reasonably Ascertainable Information

The User did not provide information that is commonly known or *reasonably ascertainable* within the local community about the subject property at the time of the assessment.

5.2.6 Previous Reports and Other Provided Documentation

The following information was provided to Partner for review during the course of this assessment:

ALTA/NSPS Land Title Survey, Huitt-Zollars (October 29, 2019) - Current building layout depicted on figure.

Land Title Survey (Preparer/Date Not Listed) – Current building layout depicted on figure.

Email Correspondence, New Carlyle/Oakmont Industrial Project in Upland, CA – Enviro DD, Email to Ron and Michele Spears from Austin Hill of Lee Associates (October 14, 2019)

Mr. Austin Hill emailed Ron and Michele Spears with the initial findings of the APEX Phase I ESA. Two RECs were identified including two former 10,000-gallon and 2,000-gallon USTs and adjacent auto repair facilities. Mr. Hill requested any available documentation regarding 10,000-gallon tank and auto repair facilities, address listed as 1780 West Foothill Boulevard. Information request was outstanding. A 2,000-gallon gasoline UST was removed from 1780 Foothill Boulevard and agency issued no further action was warranted. The up-gradient, adjacent auto repair facilities were identified at 1775 and 1785 West Foothill Boulevard.

Geotechnical Investigation, Proposed Warehouse, 1780 West Foothill Boulevard, Upland, California, Southern California Geotechnical (October 23, 2019)

Southern California Geotechnical (SoCalGeo) prepared this report on behalf of Oakmont Industrial Group. SoCalGeo concluded:

- The subsurface conditions encountered at the boring locations consisted of surficial lay of fill soils/undocumented fill (top 1.5 to 5 feet) underlain by native alluvium.
- Groundwater was not encountered in the borings or trenches (to a depth of 15). Nearest well data indicated groundwater at 247 feet bgs.

Results of Infiltration Testing, Proposed Warehouse, 1780 West Foothill Boulevard, Upland, California, SoCalGeo (October 24, 2019)

- Four borings were advanced to depths of 2 to 15 feet bgs. Two infiltration tests were performed at the site. The calculated infiltration test were 18.6 and 21.0.

- SoCalGeo recommended an infiltration rate of 18 inches per hour be used for the design of the proposed below-grade chamber system located in the southeastern area of the site.

  Copies of pertinent pages reviewed are included in Appendix B of this report.

6.0 SITE RECONNAISSANCE

The weather at the time of the site visit was sunny and clear. Refer to Section 1.5 for limitations encountered during the field reconnaissance and Sections 2.1 and 2.2 for subject property operations. The table below provides the site assessment details:

Site Assessment Data	
Site Assessment Performed By:	Heather Hodgetts
Site Assessment Conducted On:	January 15, 2021

The table below provides the subject property personnel interviewed during the field reconnaissance:

Site Visit Personnel for 1770-1780 West Foothill Boulevard (Subject Property)			
Name	**Title/Role**	**Contact Number**	**Site Walk* Yes/No**
Mr. Ron Spears	Owner of Mountain Avenue Bees, Inc. and subject Property Owner	(909) 754-2555	Yes

* Accompanied Partner during the field reconnaissance activities and provided information pertaining to the current operations and maintenance of the subject property

No potential environmental concerns were identified during the onsite reconnaissance.

6.1 General Site Characteristics

6.1.1 Solid Waste Disposal

Solid waste generated at the subject property is disposed of in a commercial dumpster located on the near the office building. An independent solid waste disposal contractor removes solid waste from the subject property. No evidence of illegal dumping of solid waste was observed during the Partner site reconnaissance.

6.1.2 Sewage Discharge and Disposal

Sanitary discharges from the subject property are directed to an onsite septic system, as further discussed in Section 6.1.7.

6.1.3 Surface Water Drainage

Storm water is removed from the subject property primarily by percolation to unpaved ground surfaces on the subject property and by sheet flow action across the paved surfaces on the southwest portion of the subject property towards stormwater drain located on the storage building. Stormwater from the drain is discharged to the southwest corner of the site and flowed to the adjacent property to the southwest. The subject property is not connected to a municipal owned and maintained sewer system.

The subject property does not appear to be a designated wetland area, based on information obtained from the United States Fish & Wildlife Service; however, a comprehensive wetlands survey would be required in order to formally determine actual wetlands on the subject property. No surface impoundments, wetlands, natural catch basins, settling ponds, or lagoons are located on the subject property. No drywells were identified on the subject property.

6.1.4 Source of Heating and Cooling

Electricity and natural gas are provided to the site vicinity by Southern California Edison (SCE) and the Southern California Gas Company.

6.1.5 Wells and Cisterns

No aboveground evidence of wells or cisterns was observed or reported during the site reconnaissance.

6.1.6 Wastewater

Domestic wastewater generated at the subject property is disposed by means of a septic system. No industrial process is currently performed at the subject property.

6.1.7 Septic Systems

A septic tank is located adjacent to the south side of the office building.

6.1.8 Additional Site Observations

No additional general site characteristics were observed during the site reconnaissance.

6.2 Potential Environmental Hazards

6.2.1 Hazardous Substances and Petroleum Products Used or Stored at the Site

No evidence of the use of reportable quantities of hazardous substances was observed on the subject property. Small quantities of retail cleaning products, propane (for forklifts), and general maintenance supplies were found to be properly labeled and stored at the time of the assessment with no signs of leaks, stains, or spills. The storage and use of cleaning and maintenance supplies does not appear to pose a significant threat to the environmental integrity of the subject property at this time.

6.2.2 Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)

Two 500-gallon propane ASTs were located to the east of the office building, on the southwestern portion of the subject property.

No evidence of current USTs was observed during the site reconnaissance. As discussed in Section 4.1.1 and 4.2.2, two former USTs were removed from the subject property in 1989 and 1990.

6.2.3 Evidence of Releases

Mr. Spears showed Partner an area of oily stained soil from stormwater runoff on the southeastern boundary of the subject property. The stormwater runoff originated from the adjacent property at 1710 West Foothill Boulevard. The property is occupied by several automotive repair businesses.

No other spills, stains or other indications that a surficial release has occurred at the subject property were observed.

6.2.4 Polychlorinated Biphenyls (PCBs)

Older transformers and other electrical equipment could contain PCBs at a level that subjects them to regulation by the U.S. EPA. PCBs in electrical equipment are controlled by United States Environmental Protection Agency regulations 40 CFR, Part 761. Under the regulations, there are three categories into which electrical equipment can be classified: 1) Less than 50 parts per million (ppm) of PCBs – "*Non-PCB;*" 2) 50 ppm-500 ppm – "*PCB-Contaminated;*" and, 3) Greater than 500 ppm – "*PCB-Containing.*" The manufacture, process, or distribution in commerce or use of any PCB in any manner other than in a totally enclosed manner was prohibited after July 2, 1979.

The on-site reconnaissance addressed indoor and outdoor transformers that may contain PCBs. One pole-mounted transformer was observed along the northwest property boundary. The transformer is not labeled indicating PCB content. No staining or leakage was observed in the vicinity of the transformer. Southern California Edison maintains ownership and operational responsibility for the transformer and that the units do not contain PCBs. Based on the good condition, this equipment is not expected to hold PCB-containing dielectric fluid and does not represent a significant environmental concern.

No other potential PCB-containing equipment (interior transformers, oil-filled switches, hoists, lifts, dock levelers, hydraulic elevators, balers, etc.) was observed on the subject property during Partner's reconnaissance.

6.2.5 Strong, Pungent or Noxious Odors

No strong, pungent or noxious odors were evident during the site reconnaissance.

6.2.6 Pools of Liquid

No pools of liquid were observed on the subject property during the site reconnaissance.

6.2.7 Drains, Sumps and Clarifiers

Two floor drains were installed by Bees Mountains in the extraction room located in the northern most room in the production & storage building on the southwest portion of the subject property. The floor drains are connected to the onsite septic system located further east of the room. Concrete cuts in the building foundation were observed leading from the floor drains to the septic tank, east of the building. According to Mr. Spears, the extraction room is routinely washed down with water.

The storage building located on the southern boundary of the site is used to store bee boxes. A linear, stormwater ribbon drain is located on the north side of the storage building on the southern boundary. Stormwater from this drain discharges to the southwest corner of the site and flows to the adjacent property to the southwest.

Mr. Spears indicated that a former sink utilized by a former tenant was formerly located adjacent to the east of the southern-most room of the production & storage building, along the southwest corner of the subject property. Stormwater from the drain is discharged to the southwest corner of the site and flowed to the adjacent property to the southwest.

No sumps, or clarifiers, other than those associated with storm water removal, were observed on the subject property during the site reconnaissance.

6.2.8 Pits, Ponds and Lagoons

No pits, ponds or lagoons were observed on the subject property.

6.2.9 Stressed Vegetation

No stressed vegetation was observed on the subject property.

6.2.10 Additional Potential Environmental Hazards

No additional environmental hazards, including landfill activities or radiological hazards, were observed.

6.3 Non-ASTM Services

6.3.1 Asbestos-Containing Materials (ACMs)

Asbestos is the name given to a number of naturally occurring, fibrous silicate minerals mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 requires certain construction materials to be *presumed* to contain asbestos, for purposes of this regulation. All thermal system insulation (TSI), surfacing material, and asphalt/vinyl flooring that are present in a building constructed prior to 1981 and have not been appropriately tested are "presumed asbestos-containing material" (PACM).

Based on the age of some of the subject property buildings (Late 1970/Early 1980s), there is potential for asbestos to be present. Prior to any disturbance of the construction materials at the subject property, a comprehensive asbestos survey is recommended. Identified asbestos-containing materials ACMs will require abatement in accordance with local regulations prior to demolition.

6.3.2 Lead-Based Paint (LBP)

Lead is a highly toxic metal that affects virtually every system of the body. LBP is defined as any paint, varnish, stain, or other applied coating that has 1 mg/cm^2 (or 5,000 ug/g or 0.5% by weight) or more of lead. Congress passed the Residential Lead-Based Paint Hazard Reduction Act of 1992, also known as "Title X", to protect families from exposure to lead from paint, dust, and soil. Under Section 1017 of Title X, intact LBP on most walls and ceilings is not considered a "hazard," although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated. Further, Section 1018 of this law directed the Housing and Urban Development (HUD) and the US EPA to require the disclosure of known information on LBP and LBP hazards before the sale or lease of most housing built before 1978.

Based on the age of the subject property buildings (Late 1970/Early 1980s), there is a potential that LBP is present. Interior and exterior painted surfaces were observed in fair condition.

6.3.3 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. The US EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, according to the table below:

EPA Radon Zones		
EPA Zones	**Average Predicted Radon Levels**	**Potential**
Zone 1	Exceed 4.0 pCi/L	Highest
Zone 2	Between 2.0 and 4.0 pCi/L	Moderate
Zone 3	Less than 2.0 pCi/L	Low

It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the US EPA recommends site-specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not conducted as part of this assessment. Review of the US EPA Map of Radon Zones places the subject property in Zone 2. Based upon the radon zone classification and proposed commercial use, radon is not considered to be a significant environmental concern.

6.3.4 Lead in Drinking Water

According to available information, a public water system operated by the City of Upland Water Division (UWD) serves the subject property vicinity. According to the UWD website, the sources of water include groundwater, surface water and imported from Northern California and the Colorado River. The 2019 Annual Water Quality Report indicated that the water supplied to the subject property is in compliance with all State and Federal regulations pertaining to drinking water standards, including lead and copper. Water sampling was not conducted to verify water quality.

6.3.5 Mold

Molds are microscopic organisms found virtually everywhere, indoors and outdoors. Mold will grow and multiply under the right conditions, needing only sufficient moisture (e.g.in the form of very high humidity, condensation, or water from a leaking pipe, etc.) and organic material (e.g., ceiling tile, drywall, paper, or natural fiber carpet padding).

Partner observed accessible, interior areas for the subject property buildings for significant evidence of mold growth with the exceptions detailed in Section 1.5 of this report; however, this ESA should not be used as a mold survey or inspection. Additionally, this limited assessment was not designed to assess all areas of potential mold growth that may be affected by mold growth on the subject property. Rather, it is intended to give the client an indication as to whether or not conspicuous (based on observed areas) mold growth is present at the subject property. This evaluation did not include a review of pipe chases, mechanical systems, or areas behind enclosed walls and ceilings.

Water stained ceiling tiles were observed in the office building. No other obvious indications of water damage or microbial growth were observed during Partner's visual assessment.

6.4 Adjacent Property Reconnaissance

The adjacent property reconnaissance consisted of observing the adjacent properties from the subject property premises. No items of environmental concern were identified on the adjacent properties during the site assessment, including hazardous substances, petroleum products, ASTs, USTs, evidence of releases, PCBs, strong or noxious odors, pools of liquids, sumps or clarifiers, pits or lagoons, stressed vegetation, or any other potential environmental hazards.

7.0 FINDINGS AND CONCLUSIONS

Findings

A *REC* refers to the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: due to release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any controlled recognized environmental conditions during the course of this assessment.

A *CREC* refers to a REC 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. The following was identified during the course of this assessment:

- Partner did not identify any controlled recognized environmental conditions during the course of this assessment.

A *HREC* refers to 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. The following was identified during the course of this assessment:

- Two former USTs were removed from the subject property in 1989 and 1990. Based on the removal of the tanks, the analytical results, and the regulatory closure, the former USTs are considered a HREC and no further action is considered necessary.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- A septic tank is located adjacent to the south side of the office building on the southwest portion of the subject property. The septic systems should be abandoned and removed under local requirements when no longer in use.
- Due to the age of the subject property buildings, there is a potential that ACM and/or LBP are present. Suspect ACMs would need to be sampled to confirm the presence or absence of asbestos prior to any demolition activities that would impact them to prevent potential exposure to workers. Prior to demolition, ACMs will require abatement in accordance with local regulations.

Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 1770-1780 West Foothill Boulevard in the City of Upland, San Bernardino County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

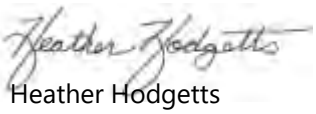
This assessment has revealed evidence of historical recognized environmental conditions and environmental issues in connection with the subject property. Based on the conclusions of this assessment, Partner recommends no further investigation of the subject property at this time.

8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Partner has performed a Phase I Environmental Site Assessment of the property located at 1770-1780 West Foothill Boulevard in the City of Upland, San Bernardino County, California in conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

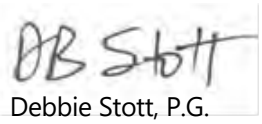
By signing below, Partner declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR §312. Partner has the specific qualifications based on education, training, and experience to assess a *property* of the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

Prepared By:



Heather Hodgetts
Senior Scientist

Reviewed by:



Debbie Stott, P.G.
Technical Director

9.0 REFERENCES

Reference Documents

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E1527-13

Environmental Data Resources (EDR), Radius Report, January 2021

Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, accessed via internet, January 2021

United States Department of Agriculture, Natural Resources Conservation Service, accessed via internet, January 2021

United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, accessed via the internet, January 2021

United States Environmental Protection Agency, EPA Map of Radon Zones (Document EPA-402-R-93-071), accessed via the internet, January 2021

United States Geological Survey, accessed via the Internet, January 2021

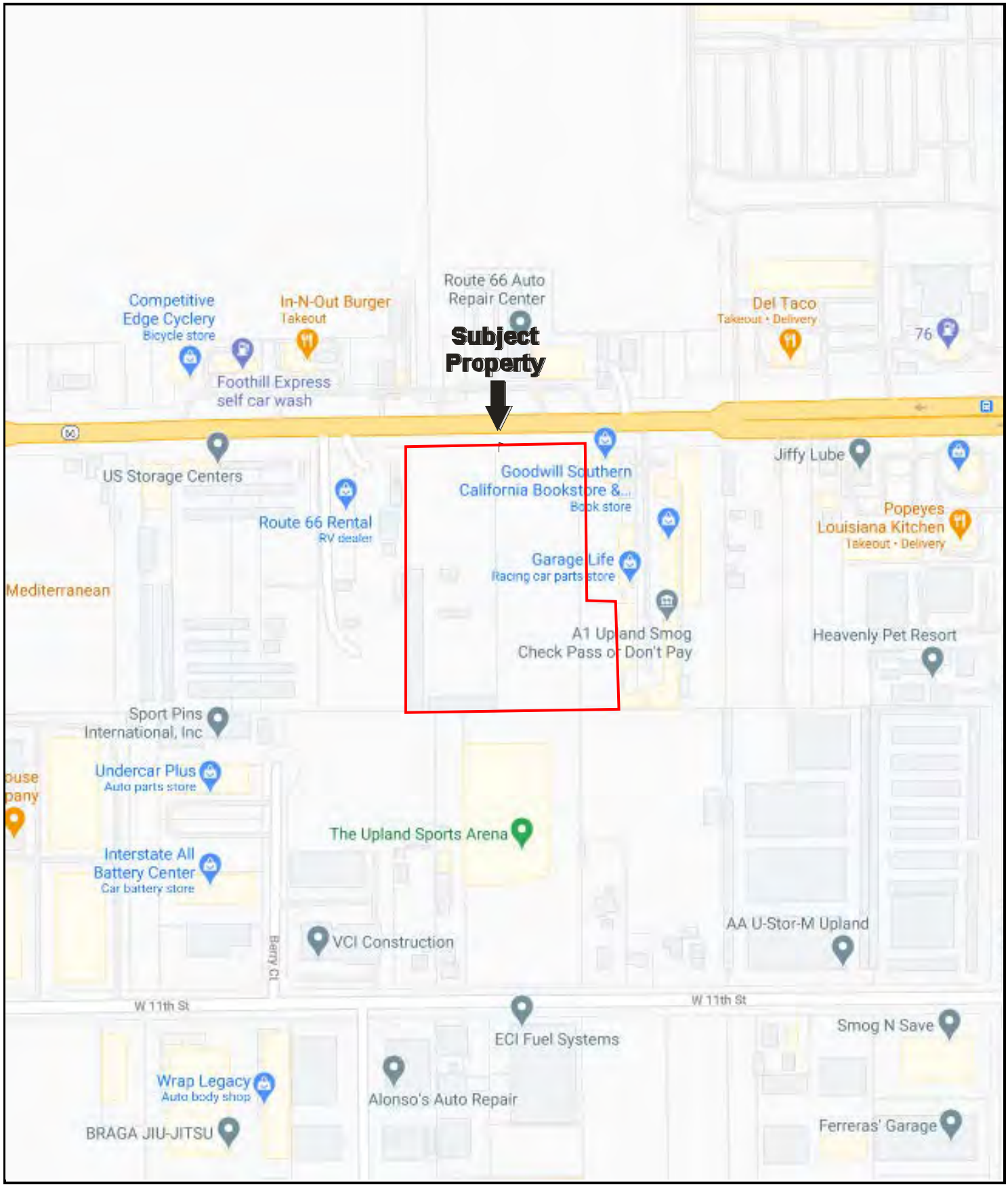
United States Geological Survey Topographic Map, 7.5-minute series, accessed via internet, January 2021

FIGURES

1 SITE LOCATION MAP

2 SITE PLAN

3 TOPOGRAPHIC MAP



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Drawing Not To Scale

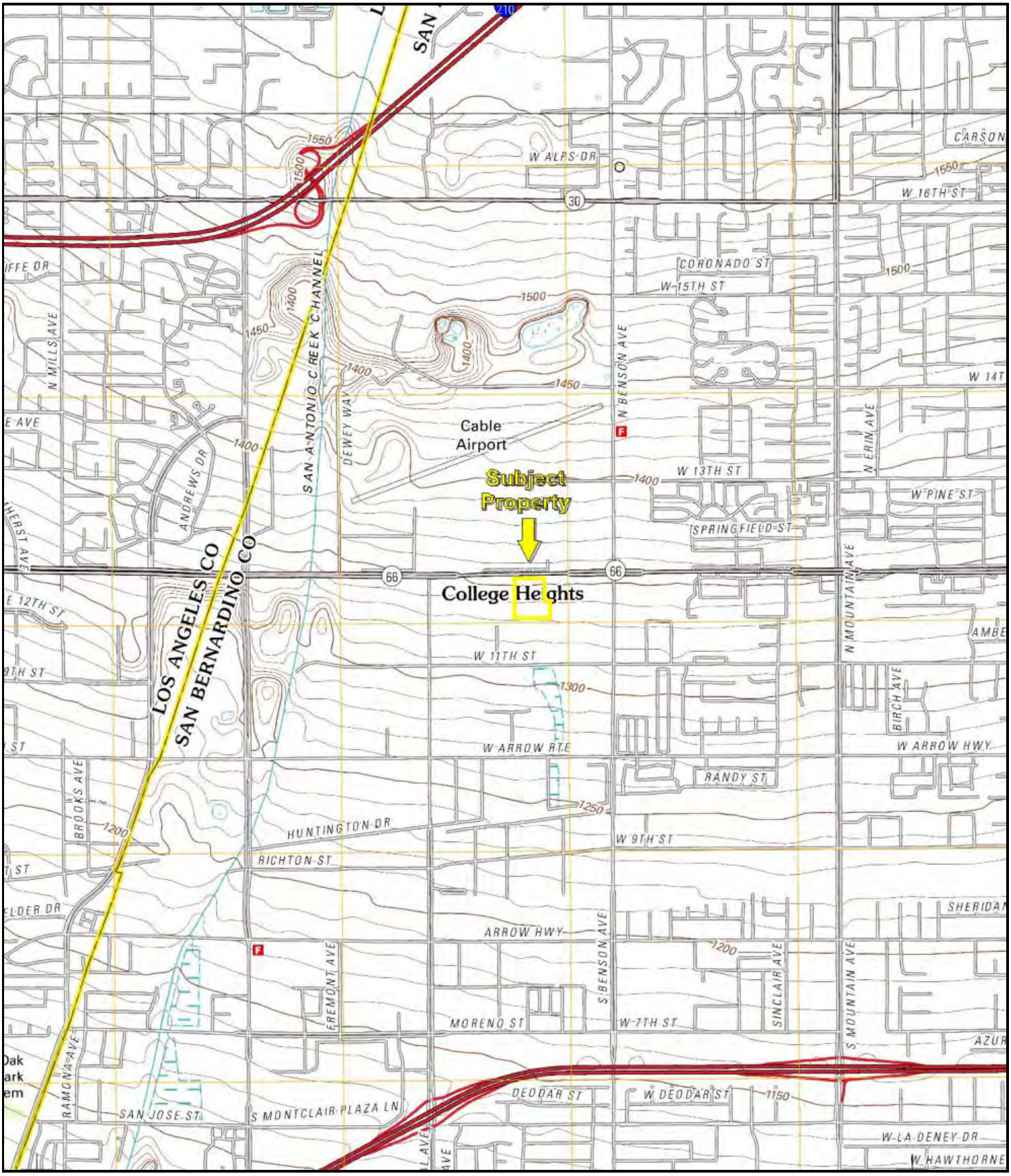
KEY:
Subject Property

FIGURE 1: SITE LOCATION MAP
Project No. 21-304796.1

PARTNER

FIGURE 2: SITE PLAN
Project No. 21-304796.1

PARTNER



N

USGS 7.5 Minute *Ontario and Mount Baldy, California* Quadrangles
Created: 2012

KEY:
Subject Property

FIGURE 3: TOPOGRAPHIC MAP
Project No. 21-304796.1

PARTNER

APPENDIX A: SITE PHOTOGRAPHS

1. Subject property from the northwest corner of the site, view facing east.

2. Subject property from the northwest corner of the site, view facing south.

3. Subject property from northwest corner of the site, view facing south.

4. Subject property from northwest corner of the site, view facing southeast.

5. Subject property from northwest corner of the site, view facing east.

6. Office building (Mountain Avenue Bees) in the southwestern part of site, view facing southeast.

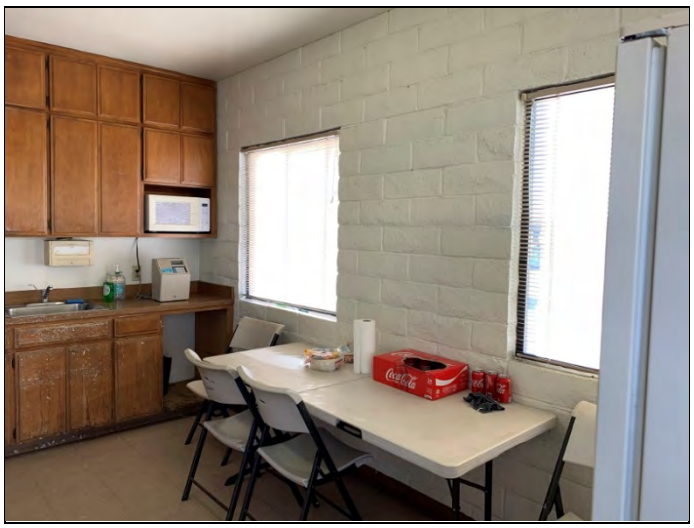
7. Former UST area on the central west boundary of the site, view facing south.

8. Office at Mountain Avenue Bees on the southwestern portion of the site, view facing southeast.

9. Gated entrance to Mountain Avenue Bees, view facing south.

10. Production/Storage building at Mountain Avenue Bees on the southwestern boundary of the site.

11. Interior of the office building.

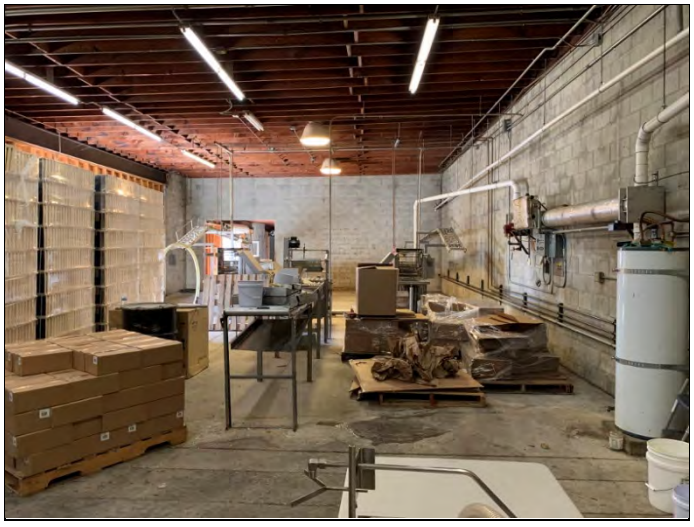


12. Interior of the office building.

13. Septic tank location on the south side of the office building, view facing east.

14. Septic tank location on the south side of the office building, view facing south

15. Food grade drums for honey observed in the Production/Storage building.



16. Northern part of the Production/Storage building (Mountain Avenue Bees).

17. Concrete cuts for floor drains installation in the northern most part of the Production/Storage building.

18. Floor drains in the northern most part of the Production/ Storage building.

19. Food grade drums for honey and beehive boxes observed in the Production/Storage building.

20. Honey storage observed in the Production/Storage building.

21. Wax separator observed in the Production/Storage building.

22. Vault associated with former dust collector in the central portion in Mountain Avenue Bees, view facing east.

23. Vault associated with former dust collector in the central portion in Mountain Avenue Bees, view facing east.

24. Central part of the Production/Storage building (Mountain Avenue Bees), view facing southwest.

25. Beehive boxes observed in the Production/Storage building.

26. Food grade drums for honey observed in the Production/Storage building.

27. Former sink area and stormwater discharge point on the southwestern boundary of the site.

28. Storage building and ribbon drain at Mountain Avenue Bees on the southern boundary of the site, view facing east.

29. Storage building interior at Mountain Avenue Bees on the southern boundary of the site.

30. Food grade drums for honey observed on the northeast side of the Storage building, view facing east.

31. View from the southeast corner of Mountain Avenue Bees, view facing north.

32. View from the southeast corner of Mountain Avenue Bees, view facing northwest.

33. View from the southeast corner of Mountain Avenue Bees, view facing west.

34. Southeastern portion of the subject property from the central portion of the site, view facing south.

35. Southeastern portion of the subject property from the central portion of the site, view facing southeast.

36. Eastern portion of the subject property from the south central boundary of the site, view facing east.

37. Eastern portion of the subject property from the south central boundary of the site, view facing northeast.

38. Eastern portion of the subject property from the south central boundary of the site, view facing north.

39. Adjacent properties to the south, view facing southeast.

40. Adjacent properties to the south, view facing south.

41. Adjacent properties to the south, view facing southwest.

42. Subject property from southeast corner of the site, view facing west.

43. Subject property from southeast corner of the site, view facing northwest.

44. Subject property from southeast corner of the site, view facing north.

45. Adjacent properties to the east, view facing northeast.

46. Adjacent properties to the east, view facing east.

47. Oily stained soil (run off) from adjacent property to the east (eastern parcel), view facing east.

48. Northeast boundary of the subject property (eastern parcel), view facing north.

49. Northeast boundary of the subject property (eastern parcel), view facing east.

50. Northeastern portion of the subject property, view facing north.

51. Subject property from northeast corner of the site, view facing south.

52. Former AST area reportedly located on the northeastern portion of the subject property, view facing south.

53. Subject property from north central boundary of the site, view facing east.

54. Subject property from north central boundary of the site, view facing southeast.

55. Subject property from north central boundary of the site, view facing south.

56. Subject property from north central boundary of the site, view facing southwest.

57. Subject property from north central boundary of the site, view facing west.

58. Adjacent properties to the west, view facing west.

APPENDIX B: HISTORICAL/REGULATORY DOCUMENTATION

PARTNER

500 1000 2000

N

Key: Subject Property

West Foothill Boulevard Upland

1750 - 1780 West Foothill Boulevard

UPLAND, CA 91786

Inquiry Number: 6325775.3

January 08, 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

01/08/21

Site Name:

West Foothill Boulevard Uplanc
1750 - 1780 West Foothill Boul
UPLAND, CA 91786
EDR Inquiry # 6325775.3

Client Name:

Partner Engineering and Science, Inc.
2154 Torrance Blvd, Suite 200
Torrance, CA 90501-0000
Contact: Cristina Scott

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Partner Engineering and Science, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # FCAB-4264-91AD

PO # 21-304796.1

Project 21-304796.1

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: FCAB-4264-91AD

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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West Foothill Boulevard Upland
1750 - 1780 West Foothill Boulevard
UPLAND, CA 91786

Inquiry Number: 6325775.5
January 14, 2021

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory 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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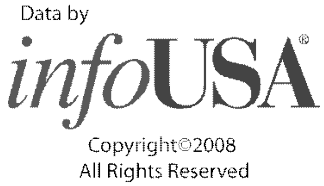

RESEARCH SUMMARY

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	-
	Cole Information Services	X	X	X	-
2014	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2009	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2008	Haines Company, Inc.	-	X	X	-
	Haines Company, Inc.	X	X	X	-
2004	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
2003	Haines & Co Publishers	-	X	X	-
	Haines & Co Publishers	X	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
2002	Cole Information Services	-	-	-	-
1999	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
1996	GTE	-	-	-	-
1995	GTE Directories	-	X	X	-
	GTE Directories	X	X	X	-
1994	Cole Information Services	-	X	X	-
	Cole Information Services	X	X	X	-
1991	GTE California Incorporated	-	-	-	-
1990	GTE	-	X	X	-
	GTE	X	X	X	-
1985	GTE	-	X	X	-
	GTE	X	X	X	-
1981	General Telephone Company of California	-	-	-	-
1980	GTE General Telephone Company of California	-	X	X	-
	GTE General Telephone Company of California	X	X	X	-
1975	GTE Directories	-	X	X	-
	GTE Directories	X	X	X	-
1970	General Telephone Company of California	-	X	X	-
	General Telephone Company of California	X	X	X	-
1965	GTE	-	-	-	-
1964	Luskey Brothers & Co	-	X	X	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	General Telephone Company Publishers	-	X	X	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Luskey Brothers Co Publishers	-	-	-	-
1951	Los Angeles Directory Company Publishers	-	X	X	-
	Los Angeles Directory Company Publishers	X	X	X	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	X	X	-
	Los Angeles Directory Company Publishers	X	X	X	-
1945	Southern Califronia Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1938	Los Angeles Directory Co.	-	-	-	-
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.	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

1750 - 1780 West Foothill Boulevard
UPLAND, CA 91786

FINDINGS DETAIL

Target Property research detail.

FOOTHILL BLVD W

1750 FOOTHILL BLVD W

Year	Uses	Source
2003	XXXX	Haines & Co Publishers
1970	APARTMENT	General Telephone Company of California
	CHAVEZ ASPRAZ	General Telephone Company of California
	NORTON EV	General Telephone Company of California
1951	Baldy View Motel 82 S	Los Angeles Directory Company Publishers
	Barber Mack	Los Angeles Directory Company Publishers
1946	Rowland C H	Los Angeles Directory Company Publishers
	tourist camp	Los Angeles Directory Company Publishers

1760 FOOTHILL BLVD W

Year	Uses	Source
2003	RZEPA Anthony	Haines & Co Publishers
	WET ENTERPRISES INC	Haines & Co Publishers
1985	B JARTRAN INC	GTE
	B UGLY DCKLNG RNT A CR	GTE
	BUILDING	GTE
	THE SAMPLER	GTE
1980	B RYDER TRUCK RENTAL	GTE General Telephone Company of California
	B SEARS RENT A CAR	GTE General Telephone Company of California
	BUDGET RENT A CAR	GTE General Telephone Company of California
	BUILDING	GTE General Telephone Company of California
	THE SAMPLER	GTE General Telephone Company of California

1770 FOOTHILL BLVD W

Year	Uses	Source
1985	INTRAVAIA ROCK/SAND	GTE
1980	v INTRAVAIA ROCK/SAND	GTE General Telephone Company of California

FINDINGS

1780 FOOTHILL BLVD W

Year	Uses	Source
2003	FENCE CRAFT OF UPLAND	Haines & Co Publishers
1995	FENCE CRAFT OF UPLND	GTE Directories
1985	LUNA JESUS	GTE
	OFENCE CRAFT OF UPLND	GTE
1980	FENCE CRAFT/UPLAND	GTE General Telephone Company of California
1970	1/2 KIRCHNAVY WM CONTR	General Telephone Company of California
	FENCE CRAFT FENCE CO	General Telephone Company of California

W FOOTHILL BLVD

1750 W FOOTHILL BLVD

Year	Uses	Source
1975	Luna Javier	GTE Directories

1760 W FOOTHILL BLVD

Year	Uses	Source
2017	GOODWILL	Cole Information Services
2014	GOODWILL BOOKSTORE & DONATION CENTER	Cole Information Services
2009	MOTORCYCLE TECH	Cole Information Services
	WET ENTERPRISES INC	Cole Information Services
2004	WET ENTERPRISES INC	Cole Information Services
1999	WET ENTERPRISES INCORPORATED	Cole Information Services
1994	COLLEGE AUTO CENTER	Cole Information Services
	COLLEGE AUTO CTR	Cole Information Services
	SAMPLER	Cole Information Services
	U HAUL CO	Cole Information Services
1990	Ugly Duckling Rent A Car	GTE
	Upland	GTE
1975	Schiros Ski & Sport	GTE Directories

1770 W FOOTHILL BLVD

Year	Uses	Source
1975	Intravaia Rock & Sand	GTE Directories

1780 W FOOTHILL BLVD

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
2004	FENCE CRAFT OF UPLAND INC	Cole Information Services

FINDINGS

Year	Uses	Source
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	FENCE CRAFT OF UPLAND	Cole Information Services
1994	FENCE CRAFT OF UPLAND INC	Cole Information Services
1990	FENCE CRAFT OF UPLAND	GTE
1975	Fence Craft Of Upland	GTE Directories

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

FOOTHILL BLVD E

1644 FOOTHILL BLVD E

Year	Uses	Source
2003	XXXX	Haines & Co Publishers

FOOTHILL BLVD W

1639 FOOTHILL BLVD W

Year	Uses	Source
2003	PACIFIC CAR WASH	Haines & Co Publishers
	STEVES PRFSNL GLASS TINTING	Haines & Co Publishers
	PAC OIL COMPANY	Haines & Co Publishers
	PAC SMOG CHECK	Haines & Co Publishers
1995	CABLE CAR WASH	GTE Directories
	v SHADES OF GLASS GLASS	GTE Directories
	CELLULAR DOCTOR	GTE Directories
1985	MAMMA DI CENSO S	GTE
1980	DI CENSO DELI/PIZZ	GTE General Telephone Company of California

1640 FOOTHILL BLVD W

Year	Uses	Source
2003	JIFFY LUBE	Haines & Co Publishers

1650 FOOTHILL BLVD W

Year	Uses	Source
2003	XXXX	Haines & Co Publishers
1980	1/24 DALLY JAS	GTE General Telephone Company of California
1970	1/2 WILMOTH W B 9 B	General Telephone Company of California
1946	contr	Los Angeles Directory Company Publishers
	Holland J A pntr	Los Angeles Directory Company Publishers

1651 FOOTHILL BLVD W

Year	Uses	Source
2003	BUILDING	Haines & Co Publishers

FINDINGS

Year	Uses	Source
2003	BENSON TOWN CLEANERS	Haines & Co Publishers
	BOULEVARD HAIR DESIGN	Haines & Co Publishers
	CINDYS NAILS	Haines & Co Publishers
	COVOMILLI INC	Haines & Co Publishers
	FRENCH TOUCH SALON	Haines & Co Publishers
	OZOLS ELSA	Haines & Co Publishers
	R A PHOTO LAB	Haines & Co Publishers
	S S AND COMPANY	Haines & Co Publishers
	SPAGGIS	Haines & Co Publishers
	SUB STATION SANDWICHES	Haines & Co Publishers
	UPLAND PHYSICAL THERAPY	Haines & Co Publishers
	UPLAND SOCCER	Haines & Co Publishers
1995	Building	GTE Directories
	A DICENSO S RESTAURANT	GTE Directories
	A Di CENSO & ASSOCIATES	GTE Directories
	E BOULEVARD HAIR DESIGN	GTE Directories
	E PHYLLIS AT BOULEVARD HAIR	GTE Directories
	E OZOLS ELSA	GTE Directories
	E BOULEVARD HAIR DESIGN	GTE Directories
	E BOULEVARD HAIR DESIGN	GTE Directories
	E CHRISTIANSEN LUANN	GTE Directories
	F MAIL BOXES ETC	GTE Directories
	F J B S HEATING & AIR	GTE Directories
	G R A PHOTO LAS	GTE Directories
	I BAGELS & COFFEE	GTE Directories
	J THE BOOK GARDEN	GTE Directories
	L BENSON TOWN CLEANERS	GTE Directories
	U SUB STATION I	GTE Directories
1985	n DI CENSO FINE CUISNE	GTE
1980	DI CENSO FINE CUISNE	GTE General Telephone Company of California
1970	n DI CENSO FINE CUISNE	General Telephone Company of California

1653 FOOTHILL BLVD W

Year	Uses	Source
2003	DEL TACO NO 243	Haines & Co Publishers
1995	DEL TACO NO	GTE Directories

FINDINGS

1656 FOOTHILL BLVD W

Year	Uses	Source
2003	CHUNG David	Haines & Co Publishers
	SENSATIONS	Haines & Co Publishers
1985	HORNER ROBT	GTE
	MCCONAHAY S DISCO	GTE
1980	I 0 MC CONAHAY S DISCO	GTE General Telephone Company of California
	HORNER ROBT	GTE General Telephone Company of California
	HORNER MRS BETTY	GTE General Telephone Company of California
1970	HORNER	General Telephone Company of California
	HORNER ROBT D	General Telephone Company of California
	MR DEES	General Telephone Company of California
1951	Horner M F Mrs fruits	Los Angeles Directory Company Publishers
1946	a Maxwel I D S	Los Angeles Directory Company Publishers

1659 FOOTHILL BLVD W

Year	Uses	Source
2003	LOWES HM IMPRVMNT WRHS UPLND	Haines & Co Publishers
1970	HIGHLAND MOTOR INN	General Telephone Company of California
1951	Richardson L S	Los Angeles Directory Company Publishers
	Crocker H A	Los Angeles Directory Company Publishers

1690 FOOTHILL BLVD W

Year	Uses	Source
2003	STEVENS Jack	Haines & Co Publishers
	ENTERPRISE RENT A CAR	Haines & Co Publishers
1995	PRO EQUIPMENT RENTAL INC	GTE Directories
1985	RYDER TRUCK RENTAL	GTE
	STEVENS FOOTHLL RNTLS	GTE
1980	STEVENS FOOTHLL RNTLS	GTE General Telephone Company of California
1970	n STEVENS FOOr THL RNTLS	General Telephone Company of California

1699 FOOTHILL BLVD W

Year	Uses	Source
1951	Felty Edw gas sta	Los Angeles Directory Company Publishers

FINDINGS

1700 FOOTHILL BLVD W

Year	Uses	Source
2003	ADVANCED ALTERNATOR & EXCH CO	Haines & Co Publishers
	B & B CLASSICS	Haines & Co Publishers
	BASIC SOUND PRODUCTION	Haines & Co Publishers
	BROWN R	Haines & Co Publishers
	SPEEDWAY MUFFLER	Haines & Co Publishers
	VALLEY ORNAMENTAL IRON CO	Haines & Co Publishers
	VALLEY TRANSMISSIONS	Haines & Co Publishers
1995	WET ENTERPRISES INC	GTE Directories
	A VLY ORNAMENTL IRON	GTE Directories
	VALLEY TRANSMISSIONS	GTE Directories
	SPEEDWAY MU	GTE Directories
1985	VALLEY TRANSMISSIONS	GTE
	SPEEDWAY MUFFLER	GTE
	ADVANCED ALTERNATOR	GTE
	A VLY ORNAMENTL IRON	GTE
1980	A VLY ORNAMENTL IRON	GTE General Telephone Company of California
	VALLEY TRANSMISSIONS	GTE General Telephone Company of California
	VALLEY MUFFLER	GTE General Telephone Company of California

1702 FOOTHILL BLVD W

Year	Uses	Source
1970	0 HAVER GARY	General Telephone Company of California

1710 FOOTHILL BLVD W

Year	Uses	Source
2003	TOYLEXURA	Haines & Co Publishers
	CHEETAH BOATS	Haines & Co Publishers
	CHUCK Holloway	Haines & Co Publishers
	CLASSIC TATTOO STDO	Haines & Co Publishers
	PRECISION CUSTOM CONVERSIONS	Haines & Co Publishers
	RDO ENTERPRIZES	Haines & Co Publishers
	ROYS AUTO REPAIR	Haines & Co Publishers
	SUN DIAMONDS	Haines & Co Publishers
	TALK N SAVE	Haines & Co Publishers
	WINGS STUDIO	Haines & Co Publishers
1995	LEDEZMA S ENTERPRISES	GTE Directories

FINDINGS

Year	Uses	Source
1995	Building	GTE Directories
	WEST COAST RADIATOR	GTE Directories

1727 FOOTHILL BLVD W

Year	Uses	Source
2003	DOWNTAIN Patrick	Haines & Co Publishers
1995	Felo Michael	GTE Directories
1970	HOLIDAY JOHN	General Telephone Company of California

1735 FOOTHILL BLVD W

Year	Uses	Source
2003	DOWNTAIN Patrick	Haines & Co Publishers
	FINLAW Donald W	Haines & Co Publishers
	LAKE Tammy L	Haines & Co Publishers
1985	APARTMENT A BEARD SHARON	GTE
1980	APARTMENT B 4 HUNT CHASE	GTE General Telephone Company of California
1970	B OE TEIICHI	General Telephone Company of California
	FREY DEBORAH E	General Telephone Company of California
	APARTMENT	General Telephone Company of California

1743 FOOTHILL BLVD W

Year	Uses	Source
2003	HIGHLAND TIRE & WHEEL DISTRBTRS	Haines & Co Publishers
	H T W AUTO CENTER	Haines & Co Publishers
	CABLE David	Haines & Co Publishers
1995	HIGHLAND Ti RE & WHEEL	GTE Directories

1745 FOOTHILL BLVD W

Year	Uses	Source
2003	XXXX	Haines & Co Publishers
1995	A HERITAGE ELECTRICAL	GTE Directories
	B vONE DAY SATELLITE	GTE Directories
	BASICIRRIGATION PARTS	GTE Directories
	Building	GTE Directories
1985	SPA MART	GTE
1980	UPLAND AUTOMOTVE SVC	GTE General Telephone Company of California
1970	n UPLAND CYCLE	General Telephone Company of California

FINDINGS

1747 FOOTHILL BLVD W

Year	Uses	Source
2003	MOTORCYCLE TECH	Haines & Co Publishers

1755 FOOTHILL BLVD W

Year	Uses	Source
1951	Owens W R	Los Angeles Directory Company Publishers

1775 FOOTHILL BLVD W

Year	Uses	Source
2003	A PLUS AUTO REPAIR	Haines & Co Publishers
	ON TIME COLLISION CENTER	Haines & Co Publishers
	UPLAND COLLISION CENTER	Haines & Co Publishers
	YOUNG William	Haines & Co Publishers
1995	A FOOTHILL AUTO SVC	GTE Directories
1985	BUILDING	GTE
	A FOOTHILL AUTO SVC	GTE
	A CALIF POOLS 8 SPAS	GTE
	A CAL SUN SOLAR INC	GTE
1980	BATISTA AUTOMOTIVE	GTE General Telephone Company of California
	FLIEDERMAUS	GTE General Telephone Company of California
	FRANKS PAINT SHOP	GTE General Telephone Company of California
1970	n A FOOTHLL BRKS/MFFLR	General Telephone Company of California
	DICKS INDUST RENTALS	General Telephone Company of California
1951	Richard 0ons Mobil Serv gas	Los Angeles Directory Company Publishers
	Richardson : NT	Los Angeles Directory Company Publishers

1784 FOOTHILL BLVD W

Year	Uses	Source
2003	U HAUL CO INDEP DEALERS	Haines & Co Publishers
	TOW MASTERS	Haines & Co Publishers
	ROUTE 66 RENTALS	Haines & Co Publishers
	MINI TRUCK SHOP	Haines & Co Publishers
1995	Eilar Ralph	GTE Directories
	MINI TRUCK SHOP	GTE Directories
1985	ROBERTSON LOUIS	GTE
1980	HENKE BILL	GTE General Telephone Company of California

FINDINGS

Year	Uses	Source
1980	GOOD INTENTIONS	GTE General Telephone Company of California
	DYNO TUNE	GTE General Telephone Company of California

1785 FOOTHILL BLVD W

Year	Uses	Source
2003	U C C AUTO SALES	Haines & Co Publishers
	ON TIME INTERNET SOLUTIONS	Haines & Co Publishers
1995	AVANT GARDE UMOUSINE	GTE Directories
1985	A DICK YOUNG GARAGE	GTE
	DICKS OVERHEAD DOOR	GTE
	1/2 YOUNG WU R	GTE
1980	ALL AMERICAN US	GTE General Telephone Company of California
	A DICKS OVERHD DOORS	GTE General Telephone Company of California
1951	Gord on Xs Poultry Ranch	Los Angeles Directory Company Publishers
	Gordon	Los Angeles Directory Company Publishers

1786 FOOTHILL BLVD W

Year	Uses	Source
2003	XXXX	Haines & Co Publishers
1995	THOUVENELL R F	GTE Directories

1790 FOOTHILL BLVD W

Year	Uses	Source
2003	GORDON William	Haines & Co Publishers
1985	HARD KATRIN	GTE
1970	PRICE MICHAEL G	General Telephone Company of California

1801 FOOTHILL BLVD W

Year	Uses	Source
2003	MARTIN Leonard	Haines & Co Publishers
	ROAD RUNNER DONUTS OF UPLAND	Haines & Co Publishers
1995	ROAD RUNNER DONUTS OF UPL	GTE Directories
1985	ROAD RUNNER DONUTS	GTE

1803 FOOTHILL BLVD W

Year	Uses	Source
2003	UPLAND AUTOMOTIVE	Haines & Co Publishers
1995	UPLAND AUTOMOTVE SVC	GTE Directories

FINDINGS

Year	Uses	Source
1985	FOOTHILL BL W CONT	GTE
	UPLAND AUTOMOTVE SVC	GTE

1811 FOOTHILL BLVD W

Year	Uses	Source
2003	LOCAL JANITORIAL & VAC SUPPLY CO	Haines & Co Publishers
	KARNS Gary	Haines & Co Publishers
1995	UPLAND JANITORIAL	GTE Directories
1985	UPLAND JANITORL SUPL	GTE
1980	MASTER SCH OF RL EST	GTE General Telephone Company of California
	MASTER REALTORS	GTE General Telephone Company of California

1837 FOOTHILL BLVD W

Year	Uses	Source
2003	IN N	Haines & Co Publishers
1980	THE FAMILY TIRE CNTR	GTE General Telephone Company of California
1970	n MURPHY ROBT CAR CARE	General Telephone Company of California

W FOOTHILL BLVD

1639 W FOOTHILL BLVD

Year	Uses	Source
2017	STEVES GLASS TINTING & AUTO SECURIT	Cole Information Services
	76	Cole Information Services
	STEVES PROFESSIONAL GLASS TINTING &	Cole Information Services
	STEVES TINTING	Cole Information Services
2014	STEVES TINTING	Cole Information Services
	STEVES PROFESSIONAL GLASS TINTING &	Cole Information Services
	CHOOS ENERGY INC	Cole Information Services
	PACIFIC CAR WASH	Cole Information Services
2009	WOLF GANG QUALITY & MAINTENANCE	Cole Information Services
	STEVES TINTING	Cole Information Services
	SUBWAY RESTAURANTS	Cole Information Services
	PACIFIC OIL CO LLC	Cole Information Services
	PACIFIC CAR WASH	Cole Information Services

FINDINGS

Year	Uses	Source
2009	STEVE S PROFESSIONAL GLASS TINTING	Cole Information Services
2008	WOLFGANG QLTY & MNTNC CORP	Haines Company, Inc.
	STEVES TINTING	Haines Company, Inc.
	STEVES PRO GLSS TNTNG & ATO	Haines Company, Inc.
	PACIFIC CAR WASH	Haines Company, Inc.
	PAC SMOG CHECK	Haines Company, Inc.
	PAC OIL COMPANY	Haines Company, Inc.
2004	STEVES PRFSNL GLASS TNTNG	Cole Information Services
1999	STEVES PROFESSIONAL GLASS TINTING & AUTO SECURITY	Cole Information Services
	CELLULAR DOCTOR COMMUNICATIONS	Cole Information Services
	CABLE CAR WASH	Cole Information Services
	FINAL TOUCH CAR WASH	Cole Information Services
1994	CABLE CAR WASH	Cole Information Services
1990	Mamma Di Censos	GTE

1640 W FOOTHILL BLVD

Year	Uses	Source
2017	JIFFY LUBE	Cole Information Services
2014	JIFFY LUBE	Cole Information Services
	HEARTLAND AUTOMOTIVE	Cole Information Services
2009	JIFFY LUBE	Cole Information Services
2008	XXXX	Haines Company, Inc.
2004	JIFFY LUBE	Cole Information Services
	JACOBO ELGOZY	Cole Information Services
1999	JIFFY LUBE	Cole Information Services

1647 W FOOTHILL BLVD

Year	Uses	Source
2017	JACKS KEY SERVICE	Cole Information Services
	ARNOLDO EXPERT LOCKSMITH	Cole Information Services
	JACKS KEY SERVICE II	Cole Information Services
	JACKS KEY SERVICE II	Cole Information Services
2014	LOCKSMITH	Cole Information Services
	JACKS KEY SERVICE	Cole Information Services
	ARNOLDO EXPERT LOCKSMITH	Cole Information Services
2009	ARNALDO EXPERT LOCKSMITH	Cole Information Services
	JACKS KEY SERVICE	Cole Information Services

FINDINGS

Year	Uses	Source
2008	ARNOLDO EXPERT LOCKSMITH	Haines Company, Inc.

1650 W FOOTHILL BLVD

Year	Uses	Source
1975	Boles Douglas A	GTE Directories

1651 W FOOTHILL BLVD

Year	Uses	Source
2017	SUSHI TAKUMI	Cole Information Services
	EDEN EAST	Cole Information Services
	SPAGGIS	Cole Information Services
	PREMIER ONE INSURANCE SEVICES INC	Cole Information Services
	BENSON TOWN CLEANERS	Cole Information Services
	COMPUTER SOLUTIONS	Cole Information Services
	UPLAND PHYSICAL THERAPY	Cole Information Services
	OK MASSAGE	Cole Information Services
	UPLAND SOCCER	Cole Information Services
	SPOIL ME NAIL & SPA	Cole Information Services
2014	SUSHI TAKUMI	Cole Information Services
	EDEN EAST	Cole Information Services
	SPAGGIS	Cole Information Services
	KITCHEN & MORE	Cole Information Services
	SPOIL ME NAIL & SPA	Cole Information Services
	S SPAGGL	Cole Information Services
	UPLAND PHYSICAL THERAPY	Cole Information Services
	OK MASSAGE	Cole Information Services
	UPLAND SOCCER	Cole Information Services
	BENSON TOWN CLEANERS	Cole Information Services
	COMPUTER SOLUTIONS	Cole Information Services
2009	BENSON TOWN CLEANERS	Cole Information Services
	SUSHI UMI	Cole Information Services
	COMPUTER SOLUTIONS 2000	Cole Information Services
	SPAGGIS	Cole Information Services
	EDEN EAST	Cole Information Services
	LA FORTUNA LLC	Cole Information Services
	SPOIL ME NAIL SPA	Cole Information Services
2008	UPLAND SOCCER	Haines Company, Inc.
	UPLAND PHYSICAL THERAPY	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2008	SUSHI UMI	Haines Company, Inc.
	SPOIL ME NAIL SPA	Haines Company, Inc.
	SPAGGIS	Haines Company, Inc.
	EDEN EAST	Haines Company, Inc.
	COMPUTER SOLUTIONS 2000	Haines Company, Inc.
	BENSON TOWN CLEANERS	Haines Company, Inc.
	KITCHEN & MORE	Haines Company, Inc.
2004	SUSHI DELIGHT	Cole Information Services
	RAHAMAN RAFIZ	Cole Information Services
	UPLAND PHYSICAL THERAPY	Cole Information Services
	SPAGGIS	Cole Information Services
	SS CO	Cole Information Services
	RA PHOTO LAB	Cole Information Services
	SPAGGIS ITALIAN GRILL	Cole Information Services
	UPLAND SOCCER	Cole Information Services
	SPOIL ME NAIL SPA	Cole Information Services
	PC UPGRADE	Cole Information Services
	HAMMERS CALIFORNIA RECYCLING	Cole Information Services
1999	BOOK GARDEN THE	Cole Information Services
	GAME TIME BAR & GRILL	Cole Information Services
	SUB STATION	Cole Information Services
	WESTERN UN CONTD TO PICK UP OR SEND MNY TRANSFERS	Cole Information Services
	S S AND COMPANY	Cole Information Services
	PHYLLIS AT BOULEVARD HAIR DESIGN	Cole Information Services
	BENSON TOWN CLEANERS	Cole Information Services
	BIEDEBACH L W & ASSOCIATES	Cole Information Services
	FRENCH TOUCH SALON	Cole Information Services
	R A PHOTO LABORATORY	Cole Information Services
	SUB STATION II	Cole Information Services
	BOULEVARD HAIR DESIGN	Cole Information Services
	ALOHA WRAPS RESTAURANT	Cole Information Services
	JUST BAGELS & COFFEE	Cole Information Services
1994	FULLER, SUSAN	Cole Information Services
	SHEEPSKIN & LEATHER	Cole Information Services
	BOULEVARD HAIR DSGN	Cole Information Services
	DI CENSO & ASSOC	Cole Information Services
	BOULEVARD HAIR DESIGN	Cole Information Services
	EURAM TRADING	Cole Information Services

FINDINGS

Year	Uses	Source
1994	MAIL BOXES ETC	Cole Information Services
	SUB STATION II	Cole Information Services
	FULLER SUSAN	Cole Information Services
	FOUR SISTERS TRAVEL	Cole Information Services
	R A PHOTO LAB	Cole Information Services
	CHINA VIDEO	Cole Information Services
	WESTERN UNION	Cole Information Services
	BENSON TOWN CLEANERS	Cole Information Services
	JBS HEATING & AIR COND CO	Cole Information Services
	MEDIFILL PELTZECHNIK USA INC	Cole Information Services
	PHYLLIS AT BOULEVARD HAIR	Cole Information Services
1975	DI CENSO FINE CUISINE	GTE Directories
	Di Censo Imports	GTE Directories

1653 W FOOTHILL BLVD

Year	Uses	Source
2014	DEL TACO	Cole Information Services
2009	SPAGGIS RESTAURANT DEL TACO	Cole Information Services
2008	DELTACO NO 243	Haines Company, Inc.
2004	DEL TACO	Cole Information Services
1999	DEL TACO	Cole Information Services
1994	DEL TACO	Cole Information Services

1656 W FOOTHILL BLVD

Year	Uses	Source
2017	SENSATIONS	Cole Information Services
2014	SENSATIONS	Cole Information Services
	DAVID CHUNG	Cole Information Services
2009	SENSATIONS	Cole Information Services
2008	SENSATIONS	Haines Company, Inc.
2004	SENSATIONS	Cole Information Services
	TIMOTHY SAXON	Cole Information Services
	UNITED ARTIST SOCIAL CLUB	Cole Information Services
1999	SUNBIRD AUTO	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	SENSATIONS	Cole Information Services
1994	MISTER TS TOWING	Cole Information Services
	ARROWHEAD INTERIORS	Cole Information Services
1990	Homrner Robt	GTE

FINDINGS

Year	Uses	Source
1975	MR CS RESTAURANT & COFFEE SHOP	GTE Directories
	Homrner Betty Mrs	GTE Directories
	Mr Dees tavrn	GTE Directories

1657 W FOOTHILL BLVD

Year	Uses	Source
2009	P SMITH	Cole Information Services
2004	P SMITH	Cole Information Services
1999	P SMITH	Cole Information Services

1659 W FOOTHILL BLVD

Year	Uses	Source
2017	LOWES	Cole Information Services
2014	LOWES HOME IMPROVEMENT	Cole Information Services
	LOWES	Cole Information Services
2009	LOWES	Cole Information Services
2008	LOWES HM IMPRVMNT WRHS UPLND	Haines Company, Inc.
2004	KETTLE CORN KITCHEN	Cole Information Services

1661 W FOOTHILL BLVD

Year	Uses	Source
2009	COMPUTER SOLUTIONS 2000	Cole Information Services

1690 W FOOTHILL BLVD

Year	Uses	Source
2017	LARGO CONCRETE INC	Cole Information Services
	ENTERPRISE RENTACAR	Cole Information Services
2014	ENTERPRISE	Cole Information Services
	LARGO CONCRETE INC	Cole Information Services
	JACK STEVENS	Cole Information Services
2009	LARGO CONCRETE INC	Cole Information Services
	ENTERPRISE RENT A CAR	Cole Information Services
2008	ENTERPRISE RENT A CAR UPLAND	Haines Company, Inc.
2004	JACK STEVENS	Cole Information Services
1999	PRO EQUIPMENT RENTAL	Cole Information Services
	EXCEL RENTAL CENTER	Cole Information Services
1994	FOOTHILL TOOL & EQUIPMENT RNTL	Cole Information Services
	GKN RENTALS	Cole Information Services
1990	FOOTHILL TOOL & EQUIPMENT RENTALS	GTE

FINDINGS

Year	Uses	Source
1990	Upland	GTE
	Ryder Truck Rental One Way Inc Rental Offices	GTE
	Upland	GTE
1975	Foothill Rentals	GTE Directories
	STEVENS FOOTHILL RENTALS	GTE Directories
	U Haul Co Dir	GTE Directories

1695 W FOOTHILL BLVD

Year	Uses	Source
1999	HOLIDAY CENTER	Cole Information Services

1700 W FOOTHILL BLVD

Year	Uses	Source
2017	BASIC SOUND PRODUCTION	Cole Information Services
	ADVANCED ALTERNATOR EXCHANGE CO	Cole Information Services
	SMI	Cole Information Services
	SPEEDWAY MUFFLER	Cole Information Services
2014	SMI	Cole Information Services
	BASIC SOUND PRODUCTION	Cole Information Services
	BEST ALTERNATORS	Cole Information Services
	VALLEY ORNAMENTAL IRON	Cole Information Services
	ADVANCED ALTERNATOR & EXCHANGE CO	Cole Information Services
	SPEEDWAY MUFFLER	Cole Information Services
2009	B & B CLASSICS	Cole Information Services
	ATLAS DELIVERY SERVICES	Cole Information Services
	VALLEY ORNAMENTAL IRON	Cole Information Services
	SPEEDWAY MUFFLER	Cole Information Services
	VALLEY TRANSMISSIONS	Cole Information Services
	ADVANCED ALTERNATOR EXCHANGE	Cole Information Services
	BEST ALTERNATORS	Cole Information Services
	SIGNATURE AUTO COSMETICS	Cole Information Services
2008	ADVANCED ALTERNATOR & EXCH CO	Haines Company, Inc.
	ADVANCED ALTERNATOR EXCH CO	Haines Company, Inc.
	ATLAS DELIVERY SERVICES	Haines Company, Inc.
	B & B CLASSICS	Haines Company, Inc.
	SO CAL TINT	Haines Company, Inc.
	SO CAL TINT	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2008	SPEEDWAY MUFFLER	Haines Company, Inc.
	VALLEY ORNAMENTAL IRON CO	Haines Company, Inc.
	BASIC SOUND PRODUCTION	Haines Company, Inc.
2004	SPEEDWAY MUFFLER	Cole Information Services
	VALLEY ORNAMENTAL IRON	Cole Information Services
	VALLEY TRANSMISSION	Cole Information Services
1999	A VALLEY ORNAMENTAL IRON COMPANY	Cole Information Services
	ADVANCED ALTERNATOR EXCHANGE	Cole Information Services
	SPEEDWAY MUFFLER	Cole Information Services
	ADVANCED ALTERNATOR & EXCHANGE COMPANY	Cole Information Services
	BASIC SOUND PRODUCTION	Cole Information Services
	EEZEE SMOG	Cole Information Services
	B & B CLASSICS	Cole Information Services
	VALLEY TRANSMISSIONS	Cole Information Services
	VALLEY AUTO SERVICE	Cole Information Services
1994	A VALLEY ORNAMENTAL IRON CO	Cole Information Services
	SPEEDWAY MUFFLER	Cole Information Services
	VALLEY TRANSMISSIONS	Cole Information Services
	CEILING TECHNOLOGY	Cole Information Services
	ADVANCED ALTERNATOR & EXCHANGE	Cole Information Services
1990	SPEEDWAY MUFFLER	GTE
	VALLEY TRANSMISSIONS	GTE

1710 W FOOTHILL BLVD

Year	Uses	Source
2017	MOTORCYCLE TECH	Cole Information Services
	A1 UPLAND SMOG	Cole Information Services
	PAYLESS AUTO GLASS REPAIR	Cole Information Services
	AUTOMATED RESCORE SYSTEMS	Cole Information Services
	RS PERFORMANCE	Cole Information Services
	STEVEN LLAMAS	Cole Information Services
	BRAZLILIAN THERAPY	Cole Information Services
	PRECISION CUSTOM COVERSIONS	Cole Information Services
	UPLAND FOOTHILL PC	Cole Information Services
	CLASSIC TATTO	Cole Information Services
	PARADISE HEALTH CENTER	Cole Information Services
	MAC GARAGE	Cole Information Services

FINDINGS

Year	Uses	Source
2014	FAZY KIASI	Cole Information Services
	BRAZLILIAN THERAPY	Cole Information Services
	CLASSIC TATTO STUDIO	Cole Information Services
	A1 UPLAND SMOG	Cole Information Services
	BENRI AUTO	Cole Information Services
	R & D PEST SERVICES	Cole Information Services
	PARADISE HEALTH CENTER	Cole Information Services
	PRECISION CUSTOM CONVERSIONS	Cole Information Services
2009	INK SLINGER GRAPHIC ARTS	Cole Information Services
	ROYS AUTO REPAIR	Cole Information Services
	E & E JAPANESE ENGINES	Cole Information Services
	BRAZILIAN MYSTIQUE RELAXATION	Cole Information Services
	INK SLINGER SCREEN PRINTING	Cole Information Services
	JIM KEARNEY BODY PIERCING	Cole Information Services
	D & D AUTOMOTIVE	Cole Information Services
	HED KASE	Cole Information Services
	STOP N TUNE	Cole Information Services
	DOMN8ER POWER BOAT	Cole Information Services
	PRECISION CUSTOM CONVERSIONS	Cole Information Services
	PARADISE SPA	Cole Information Services
	FUSCO PROPERTIES	Cole Information Services
	WINGS STUDIO	Cole Information Services
2008	BUILDING	Haines Company, Inc.
	BRAZILIAN THERAPY	Haines Company, Inc.
	CHUCK HOLLOWAY	Haines Company, Inc.
	CLASSIC TATTOO STDO	Haines Company, Inc.
	DOMNBER POWER BOATS	Haines Company, Inc.
	EYE JAPANESE ENGINE	Haines Company, Inc.
	KEARNEY JIM BODY PIERCING	Haines Company, Inc.
	KF WU AUTO SERVICE CONNECTION	Haines Company, Inc.
	MOTORCYCLE TECH	Haines Company, Inc.
	PET SO FRESH PET GROOMING	Haines Company, Inc.
	PRECISION CUSTOM CONVERSIONS	Haines Company, Inc.
	ROYS AUTO REPAIR	Haines Company, Inc.
	STOP N TUNE	Haines Company, Inc.
	WINGS STUDIO	Haines Company, Inc.
2004	DAVE FOX	Cole Information Services
	HOLLOWAY CHUCK	Cole Information Services

FINDINGS

Year	Uses	Source
2004	CONRAD LAING	Cole Information Services
	TOILEXURA PROS	Cole Information Services
	INK SLINGER	Cole Information Services
	PRECISION CUSTOM CONVERSION INC	Cole Information Services
	STOP N TUNE	Cole Information Services
	CLASSIC TATTOO PARLOR	Cole Information Services
	TALK N SAV	Cole Information Services
	VINTAGE DESIGNER CLOTHING	Cole Information Services
1999	CLASSIC TATTOO STUDIO	Cole Information Services
	REIDS AUTO SERVICE	Cole Information Services
	LEDEZMAS ENTERPRISES	Cole Information Services
	C & S GERMAN AUTO REPAIR USED & NEW PARTS	Cole Information Services
	TOYOTA SPECIALTIES OF UPLAND	Cole Information Services
	CHUCK HOLLOWAY	Cole Information Services
	CUSTOM DETAIL & TINTING	Cole Information Services
	YMCA UPLAND	Cole Information Services
	BELLON HEATING & AIR	Cole Information Services
	WINGS STUDIO	Cole Information Services
	WEST COAST RADIATOR	Cole Information Services
	VALLEY RADIATOR & AIR CONDITIONING	Cole Information Services
	PRECISION CUSTOM CONVERSIONS	Cole Information Services
	CHAMPION ENTERPRISES	Cole Information Services
	KIMMY HEALTH CENTER	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	CUSTOM AUTO SVC	Cole Information Services
	MIKES	Cole Information Services
	EXPRESS BRAKE	Cole Information Services
	WEST COAST RADIATOR	Cole Information Services
	TOYLEXURA	Cole Information Services
	A C AUTO BODY	Cole Information Services
	CUSTOM DETAIL & TINTING	Cole Information Services
	HONDA NISSANS	Cole Information Services
	REIDS AUTO SVC	Cole Information Services
	CLASSIC TATTOO STUDIO	Cole Information Services
1990	CUSTOM AUTO ACCESSORIES PLUS	GTE
	Repair Solutions	GTE
	ROYS UPHOLSTERY	GTE

FINDINGS

Year	Uses	Source
1990	Express Brake	GTE
	HOUSE OF TOOLS	GTE
	VALLEY AUTO AIR AND RADIATOR SERVICES	GTE
	TOYOTA SPECIALTIES OF UPLAND	GTE

1727 W FOOTHILL BLVD

Year	Uses	Source
2017	ED BILDERBACK	Cole Information Services
2014	BRANDI FIELDS	Cole Information Services
2009	BRANDI FIELDS	Cole Information Services
2008	FIELDS Brandi GRIDLEY Ignacia	Haines Company, Inc.
	VARGAS Daniel	Haines Company, Inc.
1999	OCCUPANT UNKNOWN	Cole Information Services
	BRANDI FIELDS	Cole Information Services
1994	FELO, MICHAEL	Cole Information Services

1735 W FOOTHILL BLVD

Year	Uses	Source
2017	SHAWNA CAFFEY	Cole Information Services
	DANIEL BAHENA	Cole Information Services
	FRANKLIN CRUZ	Cole Information Services
	DAVID KNOWLES	Cole Information Services
	CAROLANN PETERSEN	Cole Information Services
2014	RAFAEL ZELAYA	Cole Information Services
2009	JOE LOERA	Cole Information Services
	JOSHUA MARTINEZ	Cole Information Services
2008	LOERA Joe	Haines Company, Inc.
	VARGAS Daniel	Haines Company, Inc.
2004	BRANDI FIELDS	Cole Information Services
1999	JOSHUA MARTINEZ	Cole Information Services
	JOE LOERA	Cole Information Services
1990	Robertson Brad	GTE
1975	Gfoff Debby	GTE Directories
	Groetzinger Eric	GTE Directories

1743 W FOOTHILL BLVD

Year	Uses	Source
2017	HERNANDEZ TIRE SHOP	Cole Information Services
	H T W AUTO CENTER	Cole Information Services

FINDINGS

Year	Uses	Source
2017	NEXCORE INC	Cole Information Services
2014	H T W AUTO CENTER	Cole Information Services
	NEXCORE INC	Cole Information Services
2009	ULTIMATE DEALER SERVICE	Cole Information Services
2008	H T W AUTO CENTER	Haines Company, Inc.
	HIGHLAND TIRE & WHEEL DSTRBTRS	Haines Company, Inc.
	ULTIMATE DEALER SERVICES	Haines Company, Inc.
2004	SOS WIRELESS	Cole Information Services
	JOE FALLAH	Cole Information Services
1999	H T W AUTO CENTER	Cole Information Services
	HIGHLAND TIRE & WHEEL DISTRIBUTORS	Cole Information Services
1994	HTW AUTO CTR	Cole Information Services
1990	CAL WEST AUTO SUPPLY	GTE

1745 W FOOTHILL BLVD

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	MOTORCYCLE TECHNOLOGY	Cole Information Services
1994	INLAND SHEEP SKIN & LEATHER	Cole Information Services
1990	SPA MAR	GTE
	A J Spa Mart	GTE
1975	UPLAND AUTOMOTIVE SERVICE	GTE Directories

1747 W FOOTHILL BLVD

Year	Uses	Source
2014	MOTORCYCLE TECH	Cole Information Services
2009	SEXINSWEET COM	Cole Information Services
2008	ROMANTIX	Haines Company, Inc.
2004	MOTORCYCLE TECH	Cole Information Services
	RAYMUNDO PULGAR	Cole Information Services

1749 W FOOTHILL BLVD

Year	Uses	Source
1999	OCCUPANT UNKNOWN	Cole Information Services

1775 W FOOTHILL BLVD

Year	Uses	Source
2017	ADVANCE AUTO SMOG CHECK	Cole Information Services

FINDINGS

Year	Uses	Source
2017	UHAUL	Cole Information Services
	ON TIME COLLISION CENTER	Cole Information Services
	MAJIA AUTO BODY SHOP	Cole Information Services
	ROUTE 66 AUTO REPAIR	Cole Information Services
	ADVANCED AUTO SMOG CHECK	Cole Information Services
2014	BUDGET TRUCK RENTAL	Cole Information Services
	ON TIME COLLISION CENTER	Cole Information Services
	ROUTE 66 AUTO REPAIR	Cole Information Services
	ADVANCE AUTO SMOG CHECK	Cole Information Services
2009	ON TIME COLLISION CENTER	Cole Information Services
	ROUTE 66 AUTO REPAIR	Cole Information Services
	A PLUS AUTO REPAIR	Cole Information Services
	EMPIRE COLLISION	Cole Information Services
	ROUTE 66 AUTO REPAIR	Cole Information Services
	BUDGET TRUCK RENTAL ONE WAY	Cole Information Services
	PERFECT DUTCH COLLISION CENTER	Cole Information Services
2008	UPLAND COLLISION CENTER	Haines Company, Inc.
	PERFECT ONE COLLISION CENTER	Haines Company, Inc.
	U C C AUTO SALES	Haines Company, Inc.
	BUDGETTRUCK RENTAL	Haines Company, Inc.
	ON TIME COLLISION CENTER	Haines Company, Inc.
	ROUTE 66 AUTO REPAIR CENTER	Haines Company, Inc.
	RYDER TRUCK RENTAL ONE WAY INC	Haines Company, Inc.
2004	RYDER TRUCK RENTAL ONE WAY INC	Cole Information Services
	UPLAND COLLISION CTR INC	Cole Information Services
	ROUTE 66 AUTO REPAIR CTR	Cole Information Services
1999	A PLUS AUTO REPAIR	Cole Information Services
	RYDER TRUCK RENTAL ONE WAY INCORPORATED	Cole Information Services
	ON TIME COLLISION CENTER	Cole Information Services
	A 1 AUTO REPAIR CENTER	Cole Information Services
1994	MATTRESS SHOWCASE	Cole Information Services
	A FOOTHILL AUTO SVC	Cole Information Services
1990	Or	GTE
	FOOTHILL AUTO SERVICE A. 912	GTE
	A FOOTHILL AUTO SERVICE	GTE
1975	FLIEDERMAUS	GTE Directories

FINDINGS

1784 W FOOTHILL BLVD

Year	*Uses*	*Source*
2017	SWANSON BACKHOE	Cole Information Services
	CRUISE AMERICA	Cole Information Services
	ROUTE 66 RENTALS	Cole Information Services
2014	CRUISE AMERICA	Cole Information Services
	GILLINGWATORS J	Cole Information Services
	ROUTE 66 RENTALS	Cole Information Services
	PENSKE TRUCK RENTAL	Cole Information Services
	BUDGET	Cole Information Services
2009	ROUTE 66 RENTALS	Cole Information Services
	CRUISE AMERICA	Cole Information Services
	TOW MASTERS	Cole Information Services
	BUDGET CAR & TRUCK RENTAL	Cole Information Services
2008	GILLINGWATOR J	Haines Company, Inc.
	TOWNMASTERS	Haines Company, Inc.
	U HAUL CO	Haines Company, Inc.
	CRUISE AM MOTORHOME RNTL & SLS	Haines Company, Inc.
	BUDGET RENT A CAR	Haines Company, Inc.
	BUDGET RENT A CAR	Haines Company, Inc.
	ROUTE 66 RENTALS	Haines Company, Inc.
2004	ROUTE 66 RENTALS	Cole Information Services
	JAMES BLAIR	Cole Information Services
1999	CLARK BROTHERS RENTALS & U HAUL	Cole Information Services
	MINI TRUCK SHOP	Cole Information Services
	U HAUL COMPANY INDEPENDENT DEALERS	Cole Information Services
	TOW MASTERS	Cole Information Services
1994	MINI TRUCK SHOP	Cole Information Services
1990	MINI TRUCK SHOP	GTE

1785 W FOOTHILL BLVD

Year	*Uses*	*Source*
2009	U C C AUTO SALES	Cole Information Services
	M TECH	Cole Information Services
2008	THE ULTIMATE DISTRIBUTOR	Haines Company, Inc.
1994	A DICK YOUNG GARAGE DOORS	Cole Information Services

FINDINGS

1786 W FOOTHILL BLVD

Year	*Uses*	*Source*
2008	XXXX	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	THOUVENELL R F CONSTRUCTION	Cole Information Services
1994	R F THOUVENELL CONSTRUCTION	Cole Information Services

1790 W FOOTHILL BLVD

Year	*Uses*	*Source*
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	FRANK MCGINNIS	Cole Information Services
	DOUGLAS HARD	Cole Information Services
2008	XXXX	Haines Company, Inc.
2004	SCHMIT HOME MAINTENANCE	Cole Information Services
1999	DOUGLAS HARD	Cole Information Services
	FRANK MCGINNIS	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	REICHELT, RICHARD	Cole Information Services
1990	Plumb Nancy	GTE
1975	Price Michael	GTE Directories

1801 W FOOTHILL BLVD

Year	*Uses*	*Source*
2017	ROAD RUNNER DONUTS	Cole Information Services
2014	ROAD RUNNER DONUTS	Cole Information Services
2009	ROAD RUNNER DONUTS	Cole Information Services
2008	ROAD RUNNER DONUTS OF UPLAND	Haines Company, Inc.
2004	CHANNMAD YAM	Cole Information Services
	ROADRUNNER DONUTS	Cole Information Services
1999	ROAD RUNNER DONUTS OF UPLAND	Cole Information Services
1994	ROAD RUNNER DONUTS OF UPLAND	Cole Information Services

1803 W FOOTHILL BLVD

Year	*Uses*	*Source*
2017	UPLAND AUTOMOTIVE	Cole Information Services
2014	UPLAND AUTOMOTIVE	Cole Information Services
2009	UPLAND AUTOMOTIVE	Cole Information Services
2008	UPLAND AUTOMOTIVE	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services

FINDINGS

Year	Uses	Source
2004	UPLAND AUTOMOTIVE	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
	UPLAND AUTOMOTIVE	Cole Information Services
1994	UPLAND AUTOMOTIVE SVC	Cole Information Services

1808 W FOOTHILL BLVD

Year	Uses	Source
2017	GRIBBIN INSURANCE & TAX SERVICES	Cole Information Services
	UPLAND TRAINS	Cole Information Services
	FOOTHILL YOUSTOR	Cole Information Services
2014	FOOTHILL YOUSTOR	Cole Information Services
	YOU STOR	Cole Information Services
	GRIBBIN INSURANCE & TAX SERVICES	Cole Information Services
2009	SECO ENTERPRISES	Cole Information Services
	SIERRA MOTORS	Cole Information Services
	FOOTHILL YOU STORE	Cole Information Services
	GRIBBIN INSURANCE & TAX SERVICE	Cole Information Services
	JOHN D GRIBBIN INSURANCE AGENCY	Cole Information Services
2004	UPLAND TICKET SERVICE	Cole Information Services
	FOOTHILL YOU STOR	Cole Information Services
	GRIBBIN JOHN D INSURANCE AGNCY	Cole Information Services
	UPLAND TRAINS	Cole Information Services
	LEO ELLIOT	Cole Information Services
1999	YOU STOR	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
	FARMERS INSURANCE GROUP UPLAND	Cole Information Services
	SIERRA MOTORS	Cole Information Services
	FOOTHILL YOU STOR	Cole Information Services
	GRIBBIN JOHN D INS AGENCY	Cole Information Services
1994	JOHN D GRIBBIN INSURANCE	Cole Information Services
	FOOTHILL YOU STOR	Cole Information Services
	SIERRA MOTORS	Cole Information Services

1809 W FOOTHILL BLVD

Year	Uses	Source
2017	DEL FINANCIAL INC	Cole Information Services
2014	DEL FINANCIAL INC	Cole Information Services
2008	DEL FINANCIAL INC	Haines Company, Inc.

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1810 W FOOTHILL BLVD

Year	Uses	Source
2017	UPLAND TRAINS	Cole Information Services
	THE FUN ALLEY PARTY RENTAL	Cole Information Services
2014	THE FUN ALLEY PARTY RENTAL	Cole Information Services
	UPLAND TRAINS	Cole Information Services
2009	URBAN GRAPHICS	Cole Information Services
	CARRILLOS PARTY RENTALS & BALLONS	Cole Information Services
	ROUTE 66 BILLIARDS	Cole Information Services
2004	JAVIER TAVARES	Cole Information Services
	BUILDING	Cole Information Services
	ALL AROUND PEST & TRMT CNTRL INC	Cole Information Services
1999	VALLEY ELECTRICAL	Cole Information Services
	ALL AROUND TERMITE & PEST CONTROL INCORPORATED	Cole Information Services
	BRADEN WELDING	Cole Information Services
	TV DOCTOR THE UPLAND	Cole Information Services
	ALL AROUND ROOFING	Cole Information Services
1994	ALL AROUND TERMITE CONTROL	Cole Information Services
	DEMCO DECKING	Cole Information Services
	BRADEN WELDING	Cole Information Services

1811 W FOOTHILL BLVD

Year	Uses	Source
2017	LOCAL SANITARY SUPPLY CO	Cole Information Services
	DEFENSE ARTS CENTER	Cole Information Services
2014	LOCAL SANITARY SUPPLY CO	Cole Information Services
2009	LOCAL JANITORIAL & VACUUM SUPPLY CO	Cole Information Services
2008	LOCAL SANITARY SUPPLY CO	Haines Company, Inc.
	KITCHENS & STONE DESIGN CENTER	Haines Company, Inc.
	LOCAL JANITORIAL & VAC SUPPLY CO	Haines Company, Inc.
2004	OCCUPANT UNKNOWN	Cole Information Services
	LOCAL JANITORIAL & VAC SUPPLY CO	Cole Information Services
	UNIQUE DESIGN TILE & STONE	Cole Information Services
1999	UPLAND JANITORIAL SUPPLY COMPANY	Cole Information Services
1994	UPLAND JANITORIAL SUPPLY CO	Cole Information Services
1990	UPLAND JANITORIAL SUPPLY CO	GTE
1975	H & N MOTORCYCLE SALES & REPAIR	GTE Directories

FINDINGS

1812 W FOOTHILL BLVD

Year	Uses	Source
2014	OCCUPANT UNKNOWN	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
1994	BROWN, L L	Cole Information Services

1814 W FOOTHILL BLVD

Year	Uses	Source
2009	THE BUFFALO INN	Cole Information Services
2004	FORREST RINARD	Cole Information Services
	THE BUFFALO INN	Cole Information Services
1999	BUFFALO INN THE	Cole Information Services
	OCCUPANT UNKNOWN	Cole Information Services
1994	BUFFALO INN	Cole Information Services

1816 W FOOTHILL BLVD

Year	Uses	Source
2017	RICHARD RINARD	Cole Information Services
2014	RICHARD RINARD	Cole Information Services
	BUFFALO INN THE	Cole Information Services
2009	OCCUPANT UNKNOWN	Cole Information Services
2004	OCCUPANT UNKNOWN	Cole Information Services
1999	OCCUPANT UNKNOWN	Cole Information Services
1994	HAEFNER, H F	Cole Information Services

1817 W FOOTHILL BLVD

Year	Uses	Source
2004	H & R BLOCK TAX & FNNCL SRVC	Cole Information Services

1826 W FOOTHILL BLVD

Year	Uses	Source
2014	BERT HUMPHRIES	Cole Information Services
2009	BERT HUMPHRIES	Cole Information Services
1999	BERT HUMPHRIES	Cole Information Services

1837 W FOOTHILL BLVD

Year	Uses	Source
2008	XXXX	Haines Company, Inc.
1975	Foothill Gulf	GTE Directories

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W FOOTHILL I

1690 W FOOTHILL I

Year	Uses	Source
1990	Foothill Rentals	GTE
	Upland	GTE

W FOOTHILL PKY

1639 W FOOTHILL PKY

Year	Uses	Source
1960	Dyer Mabel	General Telephone Company Publishers
	Dyer Wilma R	General Telephone Company Publishers
	Dyer Mabel	General Telephone Company Publishers
	Dyer Wilma R	General Telephone Company Publishers

1650 W FOOTHILL PKY

Year	Uses	Source
1964	Dobbs Betty Mrs	Luskey Brothers & Co
1960	Beek Harold	General Telephone Company Publishers
	Beek Harold	General Telephone Company Publishers

1651 W FOOTHILL PKY

Year	Uses	Source
1964	Di Censo Italian Restaurant	Luskey Brothers & Co

1656 W FOOTHILL PKY

Year	Uses	Source
1964	Hat Rak The	Luskey Brothers & Co
1960	Rema Products	General Telephone Company Publishers
	Horner Betty Mrs	General Telephone Company Publishers
	DE ES ARCHERY	General Telephone Company Publishers
	Rema Products	General Telephone Company Publishers
	Horner Betty Mrs	General Telephone Company Publishers
	DE ES ARCHERY	General Telephone Company Publishers
	Rubber Repair Miaterials Co	General Telephone Company Publishers
	Rubber Repair Miaterials Co	General Telephone Company Publishers

1659 W FOOTHILL PKY

Year	Uses	Source
1964	Thompson Violet	Luskey Brothers & Co

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Year	Uses	Source
1964	Highland Motor Inn	Luskey Brothers & Co
1960	Grapp Glenn	General Telephone Company Publishers
	Grapp Glenn	General Telephone Company Publishers

1700 W FOOTHILL PKY

Year	Uses	Source
1964	OHaver Michl	Luskey Brothers & Co
	OHaver Edith Mrs	Luskey Brothers & Co
	Garolds Appliances	Luskey Brothers & Co
	Garolds Appliances	Luskey Brothers & Co
	Ediths Clip Joint	Luskey Brothers & Co
	Ediths Clip Joint	Luskey Brothers & Co
1960	OHaver G V	General Telephone Company Publishers
	OHaver G V	General Telephone Company Publishers

1727 W FOOTHILL PKY

Year	Uses	Source
1964	Rohrbach Harry Roberta	Luskey Brothers & Co
	Scholes Nelle Mrs	Luskey Brothers & Co

1735 W FOOTHILL PKY

Year	Uses	Source
1964	Fritsch Alberta G Mrs	Luskey Brothers & Co
	Cokinoz Iris Mrs	Luskey Brothers & Co
	Palazzi Benj B Nicetta	Luskey Brothers & Co
1960	Weaver Jack C	General Telephone Company Publishers
	Weaver Jack C	General Telephone Company Publishers

1745 W FOOTHILL PKY

Year	Uses	Source
1964	Pulver Rents	Luskey Brothers & Co
1960	Pulver Dale Equip Rentals Co	General Telephone Company Publishers
	Pulver Dale Equip Rentals Co	General Telephone Company Publishers

1747 W FOOTHILL PKY

Year	Uses	Source
1964	Clevenger Herb	Luskey Brothers & Co
	C & C Service Station	Luskey Brothers & Co
	C & C Manufacturing Co	Luskey Brothers & Co

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1750 W FOOTHILL PKY

Year	Uses	Source
1964	Norton Ronald	Luskey Brothers & Co
	Norton RC Eva	Luskey Brothers & Co
	Baldy View Cabins	Luskey Brothers & Co
1960	Baldy View Court	General Telephone Company Publishers
	Baldy View Court	General Telephone Company Publishers

1755 W FOOTHILL PKY

Year	Uses	Source
1960	La Budda Thos L	General Telephone Company Publishers
	La Budda Thos L	General Telephone Company Publishers

1775 W FOOTHILL PKY

Year	Uses	Source
1960	Steely Floyd	General Telephone Company Publishers
	Steely Floyd	General Telephone Company Publishers

1780 W FOOTHILL PKY

Year	Uses	Source
1964	Fence Craft of Upland	Luskey Brothers & Co

1785 W FOOTHILL PKY

Year	Uses	Source
1964	Urban Vincent J	Luskey Brothers & Co
1960	Gordon Josephine M Mrs	General Telephone Company Publishers
	Gordon Josephine M Mrs	General Telephone Company Publishers

1786 W FOOTHILL PKY

Year	Uses	Source
1964	Pharris Paul 0 Opal	Luskey Brothers & Co

1790 W FOOTHILL PKY

Year	Uses	Source
1964	Robinson Pearl Mrs	Luskey Brothers & Co
1960	Robinson Pearl Mrs	General Telephone Company Publishers
	Rushing Chas T	General Telephone Company Publishers
	Robinson Pearl Mrs	General Telephone Company Publishers
	Rushing Chas T	General Telephone Company Publishers

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1837 W FOOTHILL PKY

Year	***Uses***	***Source***
1964	Blanchard Distributing Co	Luskey Brothers & Co
1960	Hartshorne Wilshire serv stn	General Telephone Company Publishers
	Hartshorne Wilshire serv stn	General Telephone Company Publishers

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
1639 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 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
1639 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 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
1639 W FOOTHILL BLVD	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
1639 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1640 FOOTHILL BLVD W	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
1640 W FOOTHILL BLVD	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
1640 W FOOTHILL BLVD	2008, 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
1644 FOOTHILL BLVD E	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
1647 W FOOTHILL BLVD	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
1647 W FOOTHILL BLVD	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
1650 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1650 W FOOTHILL BLVD	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1650 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1651 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1651 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 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
1651 W FOOTHILL BLVD	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
1651 W FOOTHILL PKY	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
1653 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 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
1653 W FOOTHILL BLVD	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
1653 W FOOTHILL BLVD	2017, 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
1656 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1656 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1656 W FOOTHILL BLVD	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
1656 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1657 W FOOTHILL BLVD	2017, 2014, 2008, 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
1659 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1659 W FOOTHILL BLVD	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
1659 W FOOTHILL BLVD	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
1659 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1661 W FOOTHILL BLVD	2017, 2014, 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
1690 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1690 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1985, 1981, 1980, 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
1690 W FOOTHILL BLVD	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
1690 W FOOTHILL I	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 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
1695 W FOOTHILL BLVD	2017, 2014, 2009, 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
1699 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1700 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 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
1700 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 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
1700 W FOOTHILL BLVD	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
1700 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1702 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1710 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 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
1710 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 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
1710 W FOOTHILL BLVD	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
1727 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1727 W FOOTHILL BLVD	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
1727 W FOOTHILL BLVD	2008, 2004, 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
1727 W FOOTHILL PKY	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
1735 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

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Address Researched	Address Not Identified in Research Source
1735 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1735 W FOOTHILL BLVD	2008, 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
1735 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1743 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 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
1743 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 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
1743 W FOOTHILL BLVD	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
1745 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1745 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1745 W FOOTHILL BLVD	2017, 2014, 2009, 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
1745 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1747 FOOTHILL BLVD W	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
1747 W FOOTHILL BLVD	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
1747 W FOOTHILL BLVD	2017, 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
1747 W FOOTHILL PKY	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
1749 W FOOTHILL BLVD	2017, 2014, 2009, 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
1750 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1755 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

FINDINGS

Address Researched	Address Not Identified in Research Source
1755 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1775 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1775 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1775 W FOOTHILL BLVD	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
1775 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1780 W FOOTHILL PKY	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
1784 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 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
1784 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 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
1784 W FOOTHILL BLVD	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
1785 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 1981, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1785 W FOOTHILL BLVD	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
1785 W FOOTHILL BLVD	2017, 2014, 2008, 2004, 2003, 2002, 1999, 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
1785 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1786 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 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
1786 W FOOTHILL BLVD	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
1786 W FOOTHILL BLVD	2017, 2014, 2009, 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
1786 W FOOTHILL PKY	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
1790 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1981, 1980, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1790 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1790 W FOOTHILL BLVD	2017, 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
1790 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1801 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 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
1801 W FOOTHILL BLVD	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
1801 W FOOTHILL BLVD	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
1803 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 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
1803 W FOOTHILL BLVD	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
1803 W FOOTHILL BLVD	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
1808 W FOOTHILL BLVD	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
1809 W FOOTHILL BLVD	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
1809 W FOOTHILL BLVD	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
1810 W FOOTHILL BLVD	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
1811 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1994, 1991, 1990, 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
1811 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1811 W FOOTHILL BLVD	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

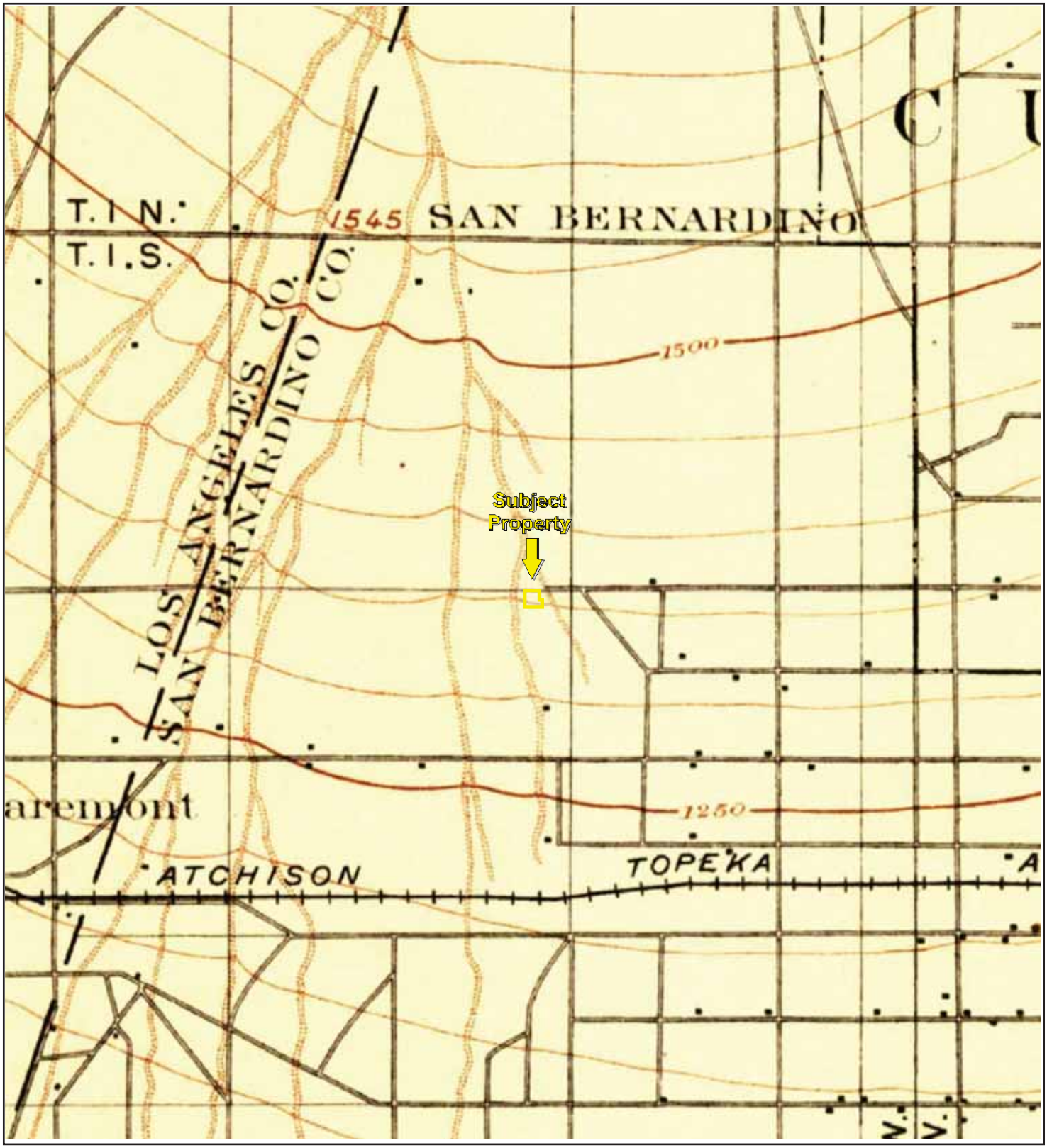
FINDINGS

Address Researched	Address Not Identified in Research Source
1812 W FOOTHILL BLVD	2017, 2008, 2004, 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
1814 W FOOTHILL BLVD	2017, 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
1816 W FOOTHILL BLVD	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
1817 W FOOTHILL BLVD	2017, 2014, 2009, 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
1826 W FOOTHILL BLVD	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
1837 FOOTHILL BLVD W	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1975, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1837 W FOOTHILL BLVD	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
1837 W FOOTHILL PKY	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1961, 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
1750 - 1780 West Foothill Boulevard	2002, 1996, 1991, 1981, 1965, 1964, 1961, 1960, 1956, 1955, 1950, 1949, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

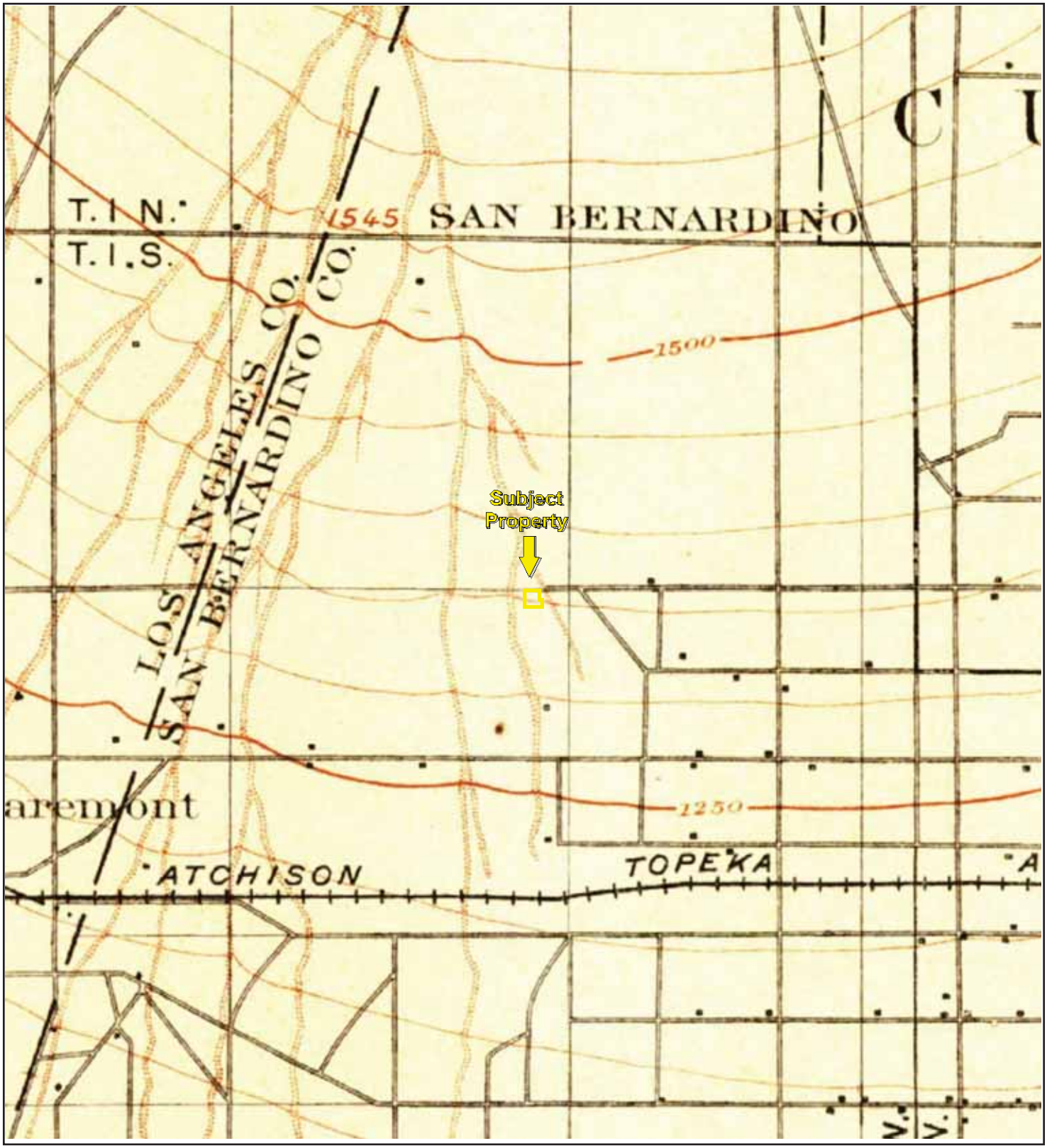


TP, Cucamonga, 1897, 15-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property

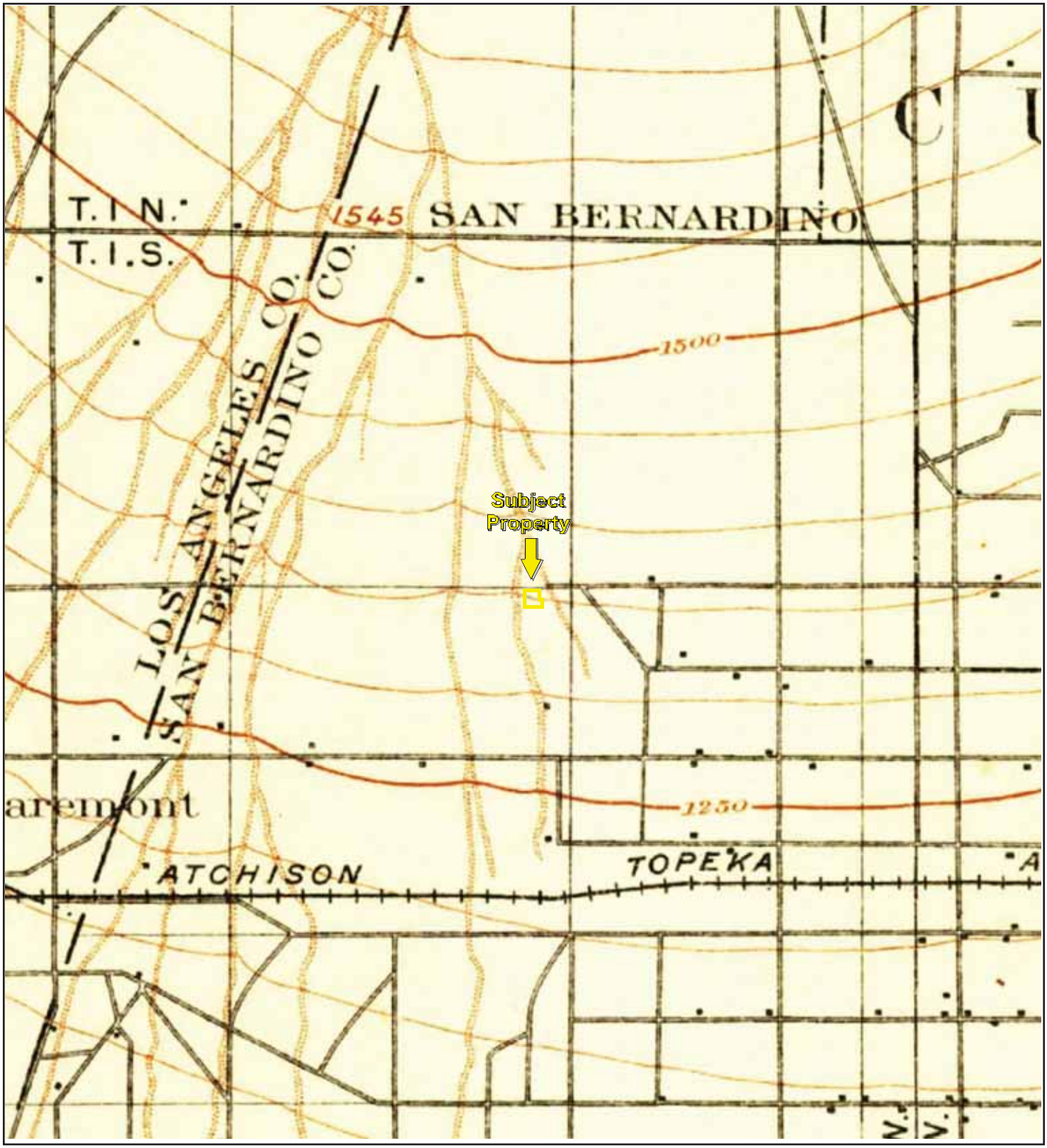


TP, Cucamonga, 1900, 15-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property

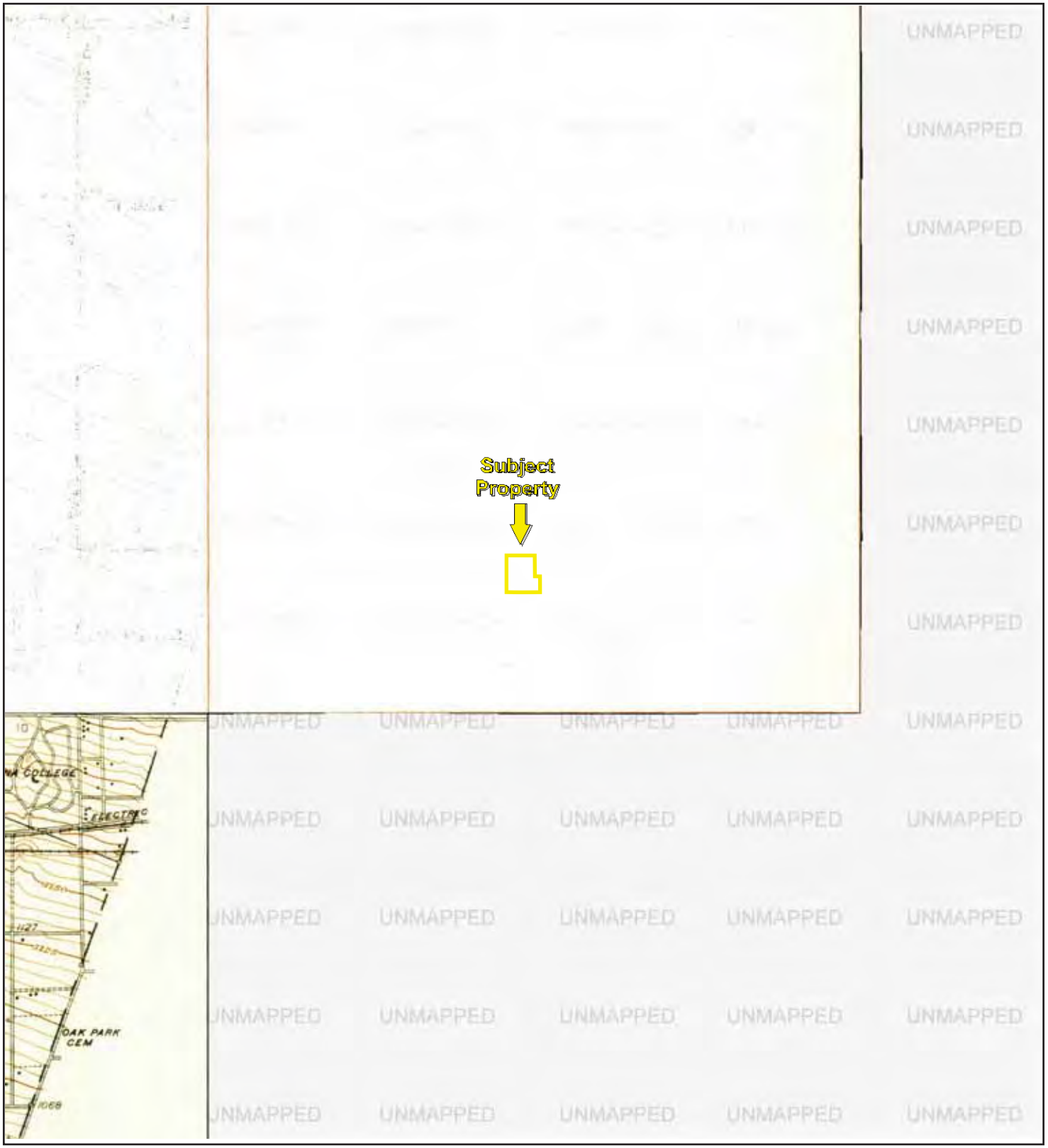


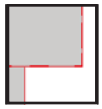
TP, Cucamonga, 1903, 15-minute

0 Miles 0.25 0.5 1 1.5

N

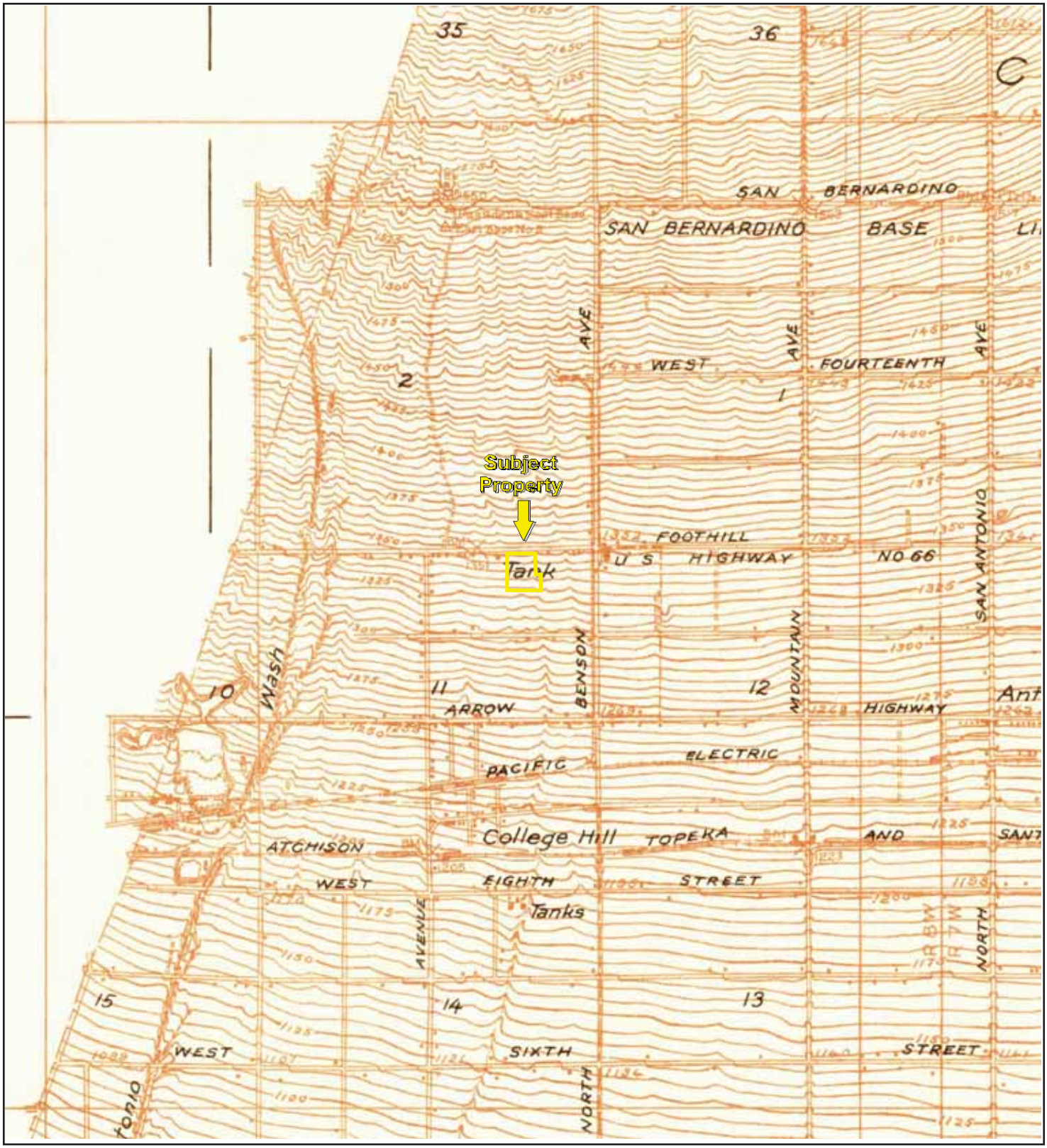
Key: Subject Property





TP, La Verne and Evey Canyon, 1933, 7.5-minute
SW, Claremont, 1928, 7.5-minute
NW, La Verne, 1928, 7.5-minute

Key: Subject Property

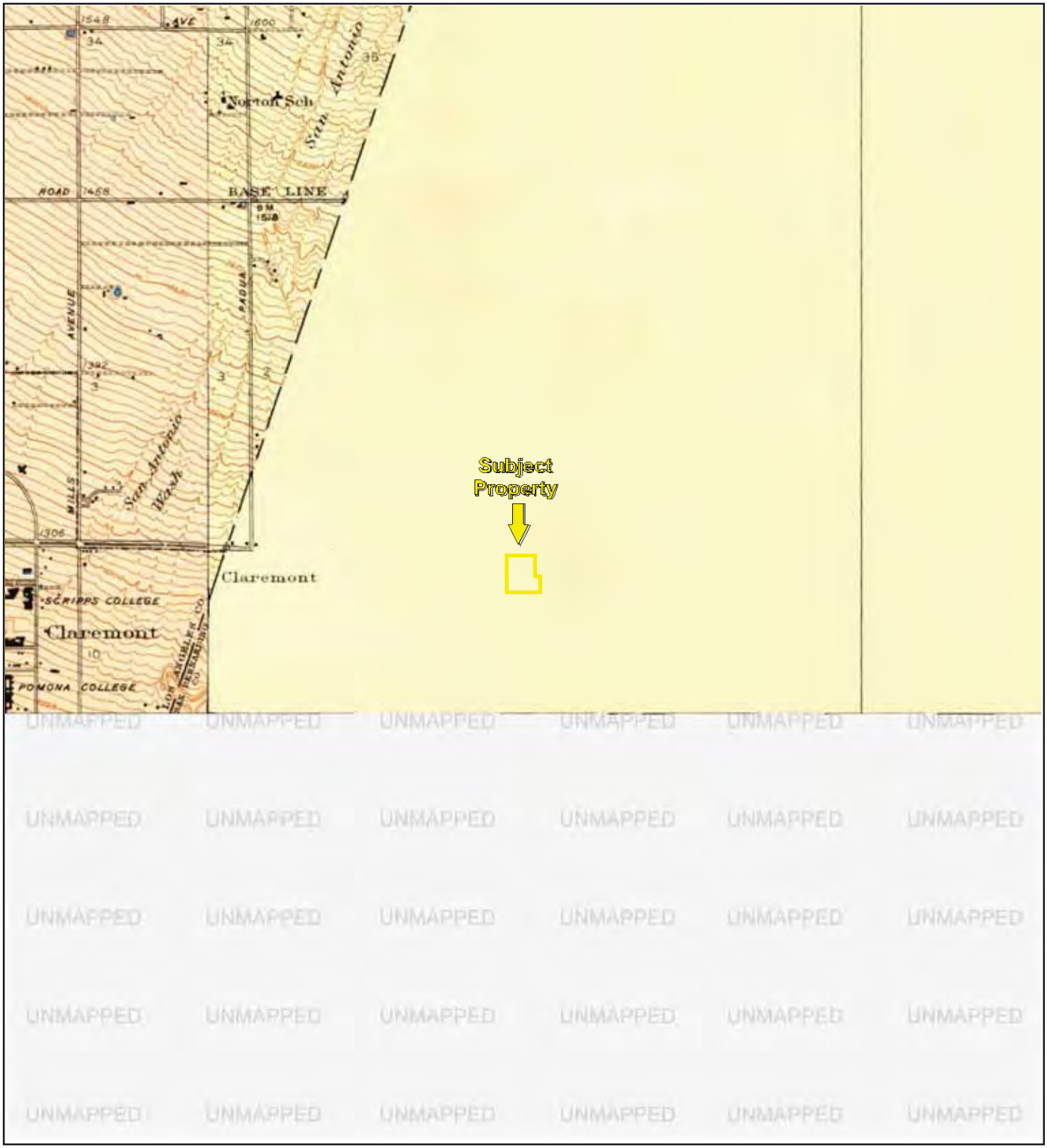


TP, Ontario, 1933, 7.5-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property



TP, Evey Canyon, 1940, 7.5-minute
NW, La Verne, 1940, 7.5-minute

0 Miles 0.25 0.5 1 1.5

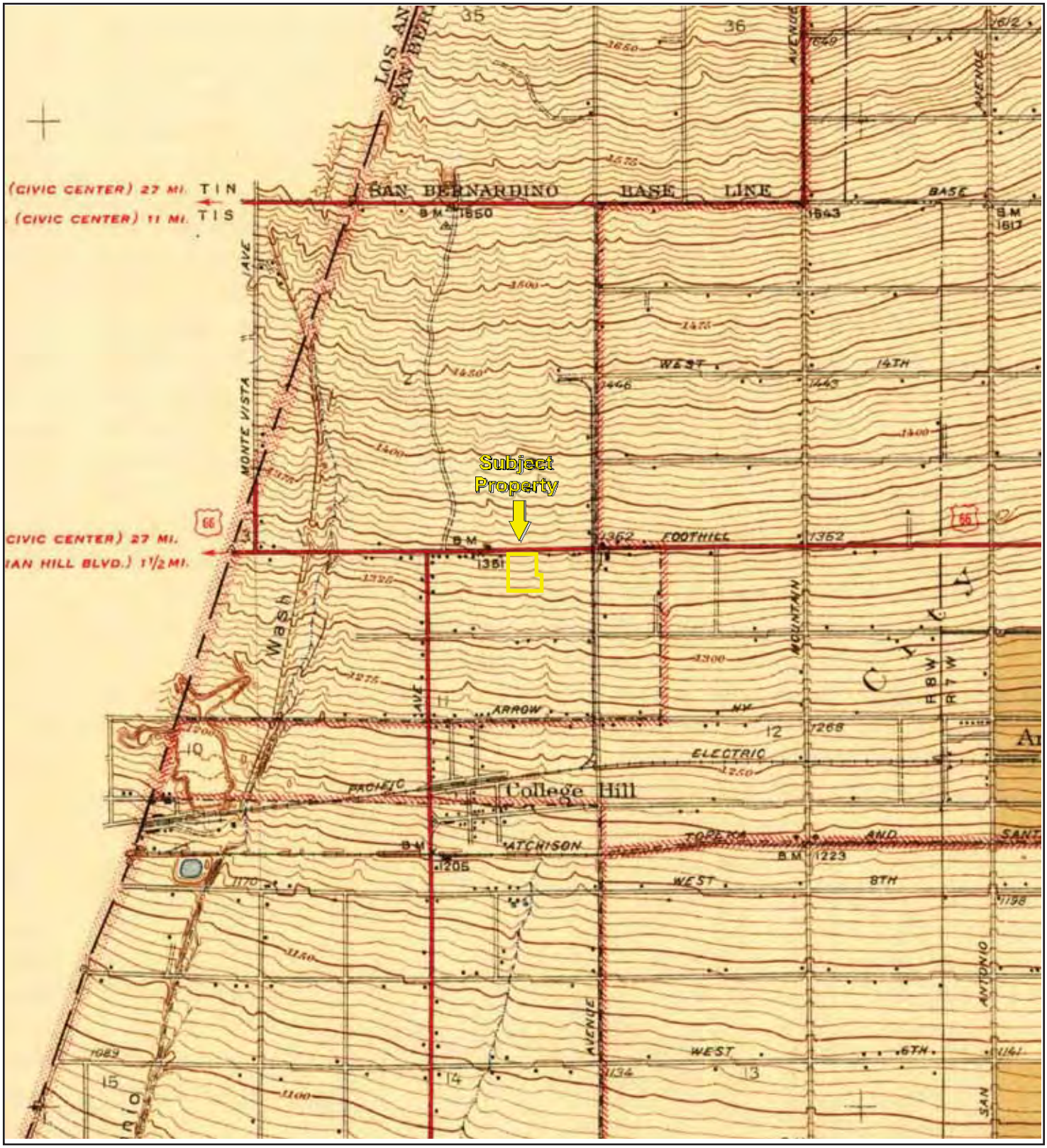
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-304796.1

PARTNER

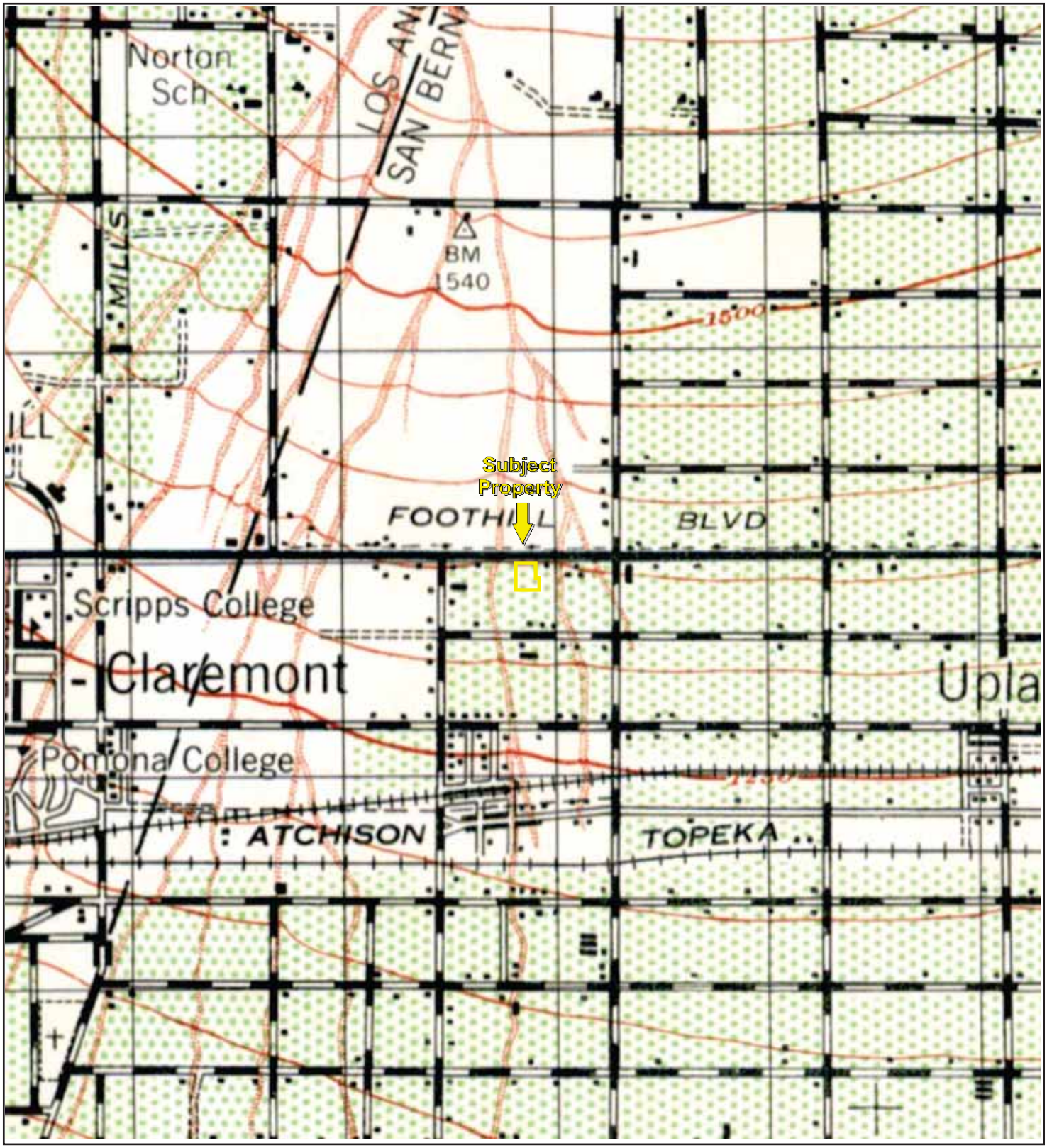


TP, Ontario and Vicinity, 1942, 7.5-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property



TP, CUCAMONGA, 1944, 15-minute

0 Miles 0.25 0.5 1 1.5

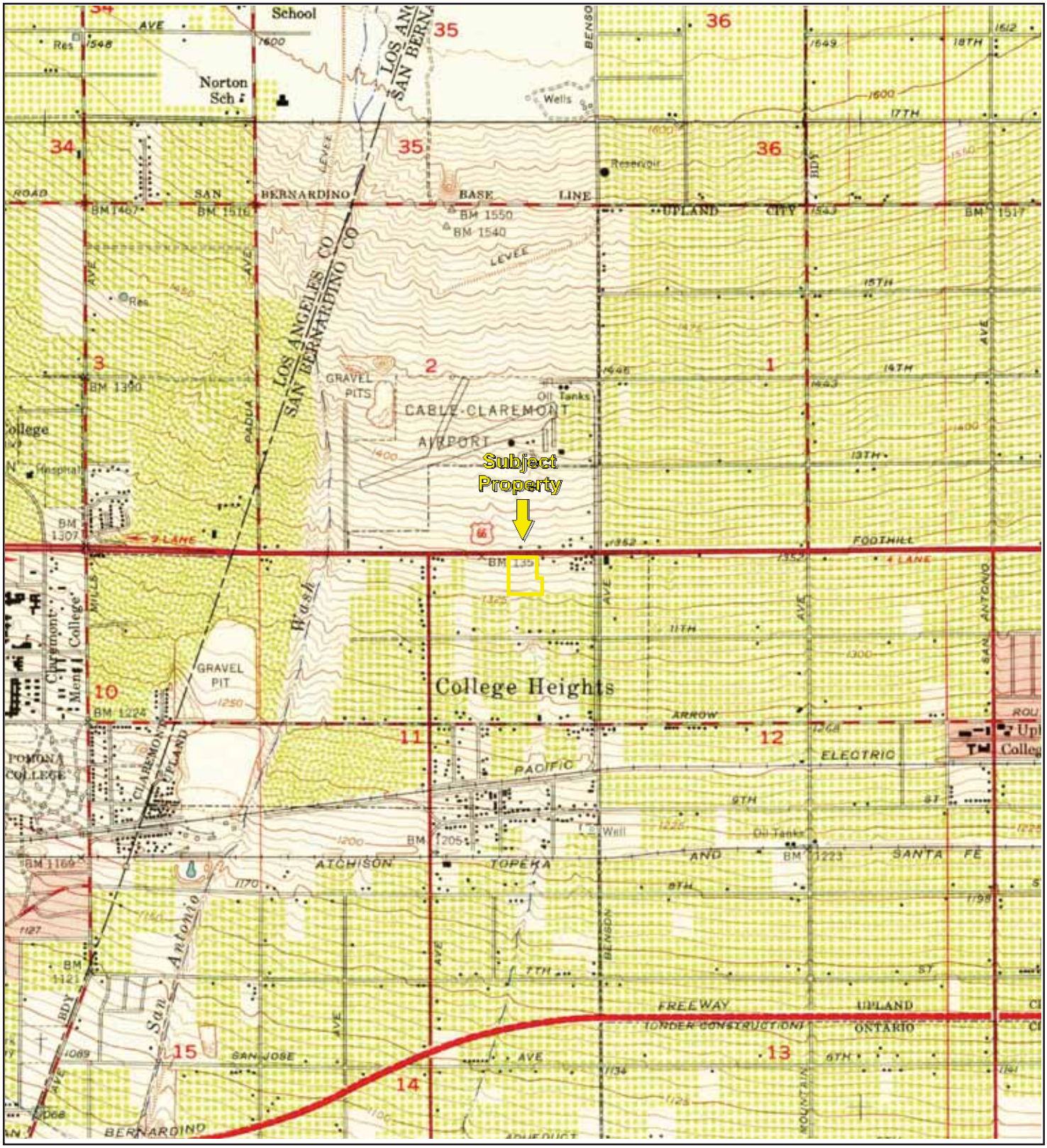
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-304796.1

PARTNER



TP, Ontario, 1954, 7.5-minute
N, Mt. Baldy, 1954, 7.5-minute

0 Miles 0.25 0.5 1 1.5

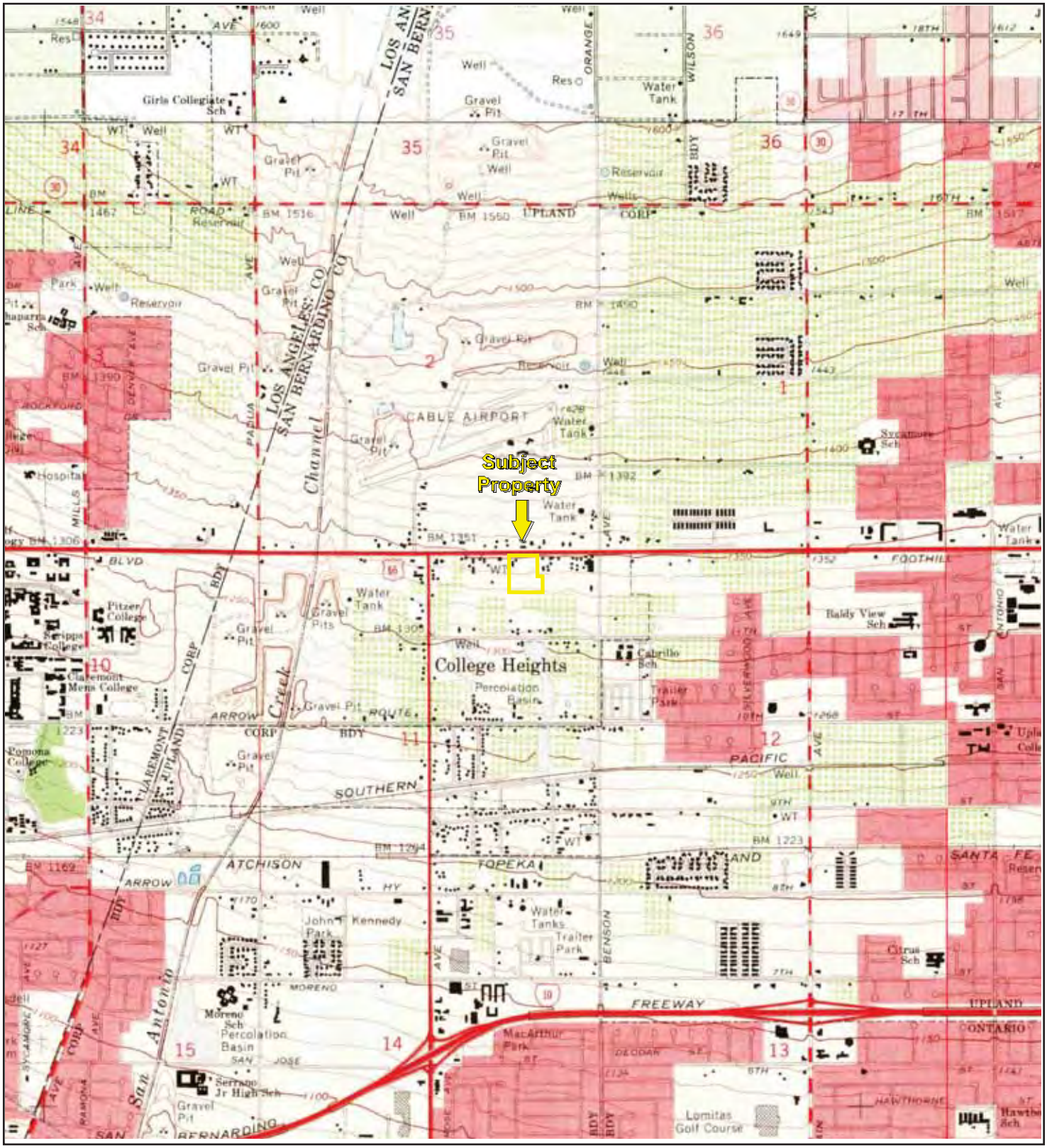
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-304796.1

PARTNER



TP, Ontario, 1967, 7.5-minute
N, Mt. Baldy, 1967, 7.5-minute

0 Miles 0.25 0.5 1 1.5

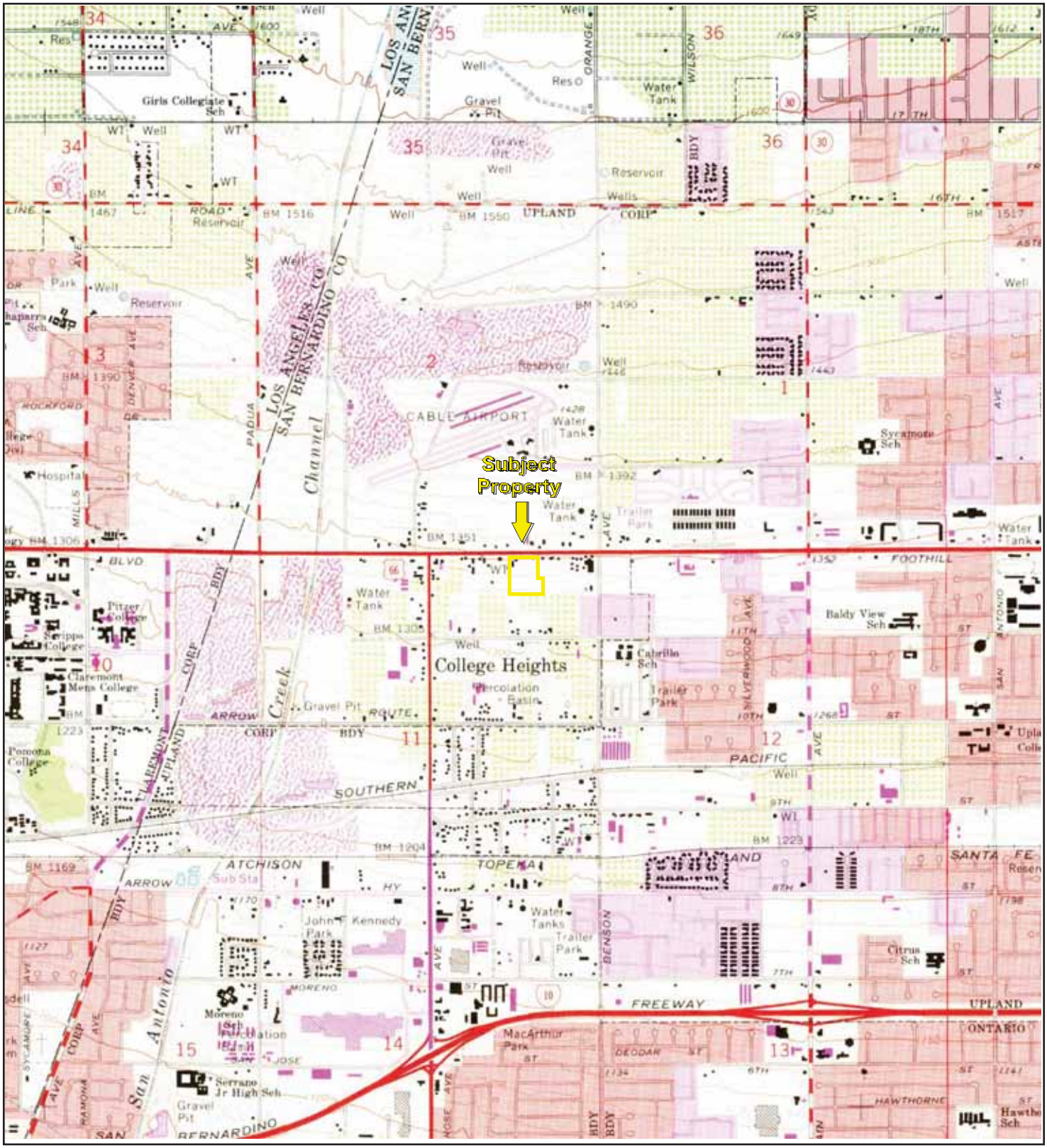
N

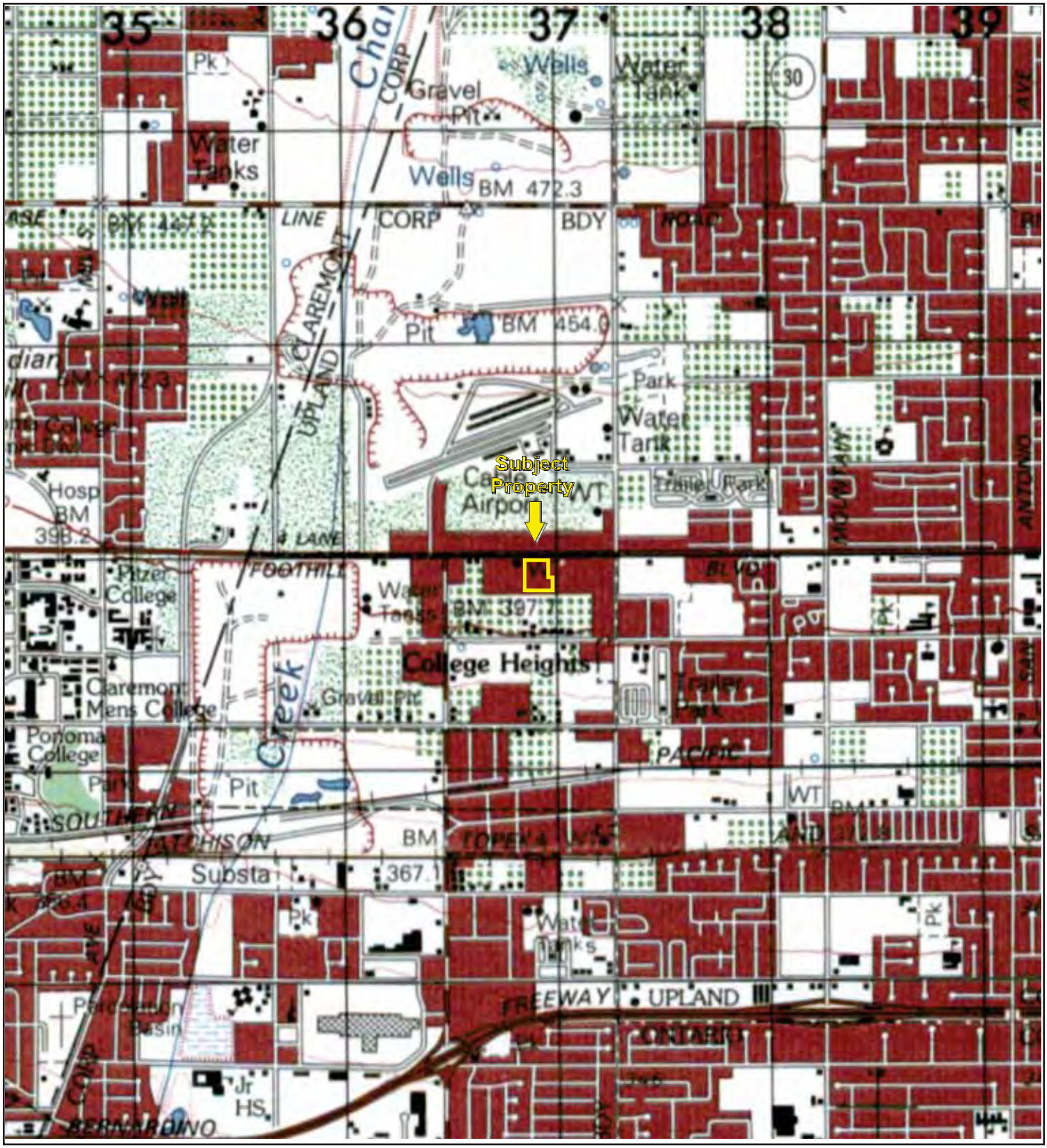
Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-304796.1

PARTNER


Subject Property
College Heights
CABLE AIRPORT
Los Angeles Co
San Bernardino Co
Channel
Creek
SOUTHERN
PACIFIC
ATCHISON
TOPEKA
SANTA FE
FREEWAY
UPLAND
ONTARIO
FOOTHILL
Girls Collegiate Sch
Pitzer College
Scripps College
Claremont Mens College
Pomona College
Baldy View Sch
Cabrillo Sch
Sycamore Sch
Citrus Sch
John F Kennedy Park
MacArthur Park
Serrano Jr High Sch
Moreno Sub Sta
Water Tank
Water Tanks
Trailer Park
Gravel Pit
Percolation Basin
Reservoir
Well
Hospital
Park
Golf Course
Res O
Wells
Corp
Ramona Ave
Mills
Benson
Haven
Hawthorne
Deodar
Arrow
Route
Foothill Blvd
Sycamore Ave
Rockford Dr
Padua Ave
Denker Ave
Euclid Ave
Vineyard Ave
Sierra Madre Ave
Mountain View Ave
Monte Vista Ave
Central Ave
Campus Ave
Benson Ave
Haven Ave
Rochester Ave
Archibald Ave
Turner Ave
Milliken Ave
Etiwanda Ave
Hamner Ave
Day Creek Blvd
Rancho Cucamonga
Alta Loma
Cucamonga
Guasti
Ontario
Upland
Claremont
Pomona
San Antonio
San Bernardino
Moreno
Jose
Bdy
Corp
Ave
St
Blvd
Rd
Dr
Pl
Ln
Ct
Hy
Sub Sta
Res
Sch
Hospital
Golf Course
Park
Well
Reservoir
Water Tank
Water Tanks
Trailer Park
Gravel Pit
Percolation Basin
Wells
Corp
Bdy



TP, ONTARIO, 1976, 15-minute

0 Miles 0.25 0.5 1 1.5

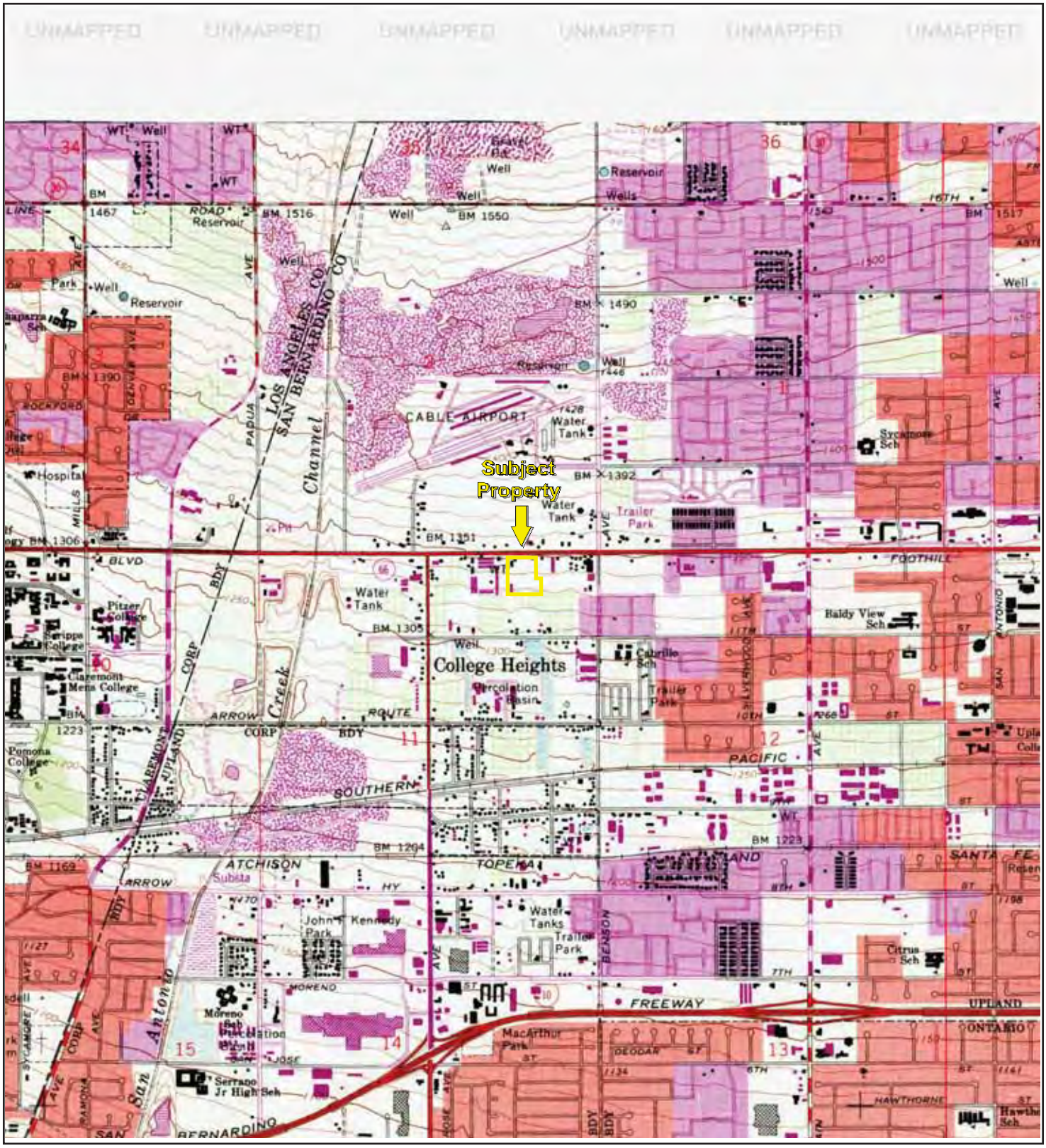
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-304796.1

PARTNER

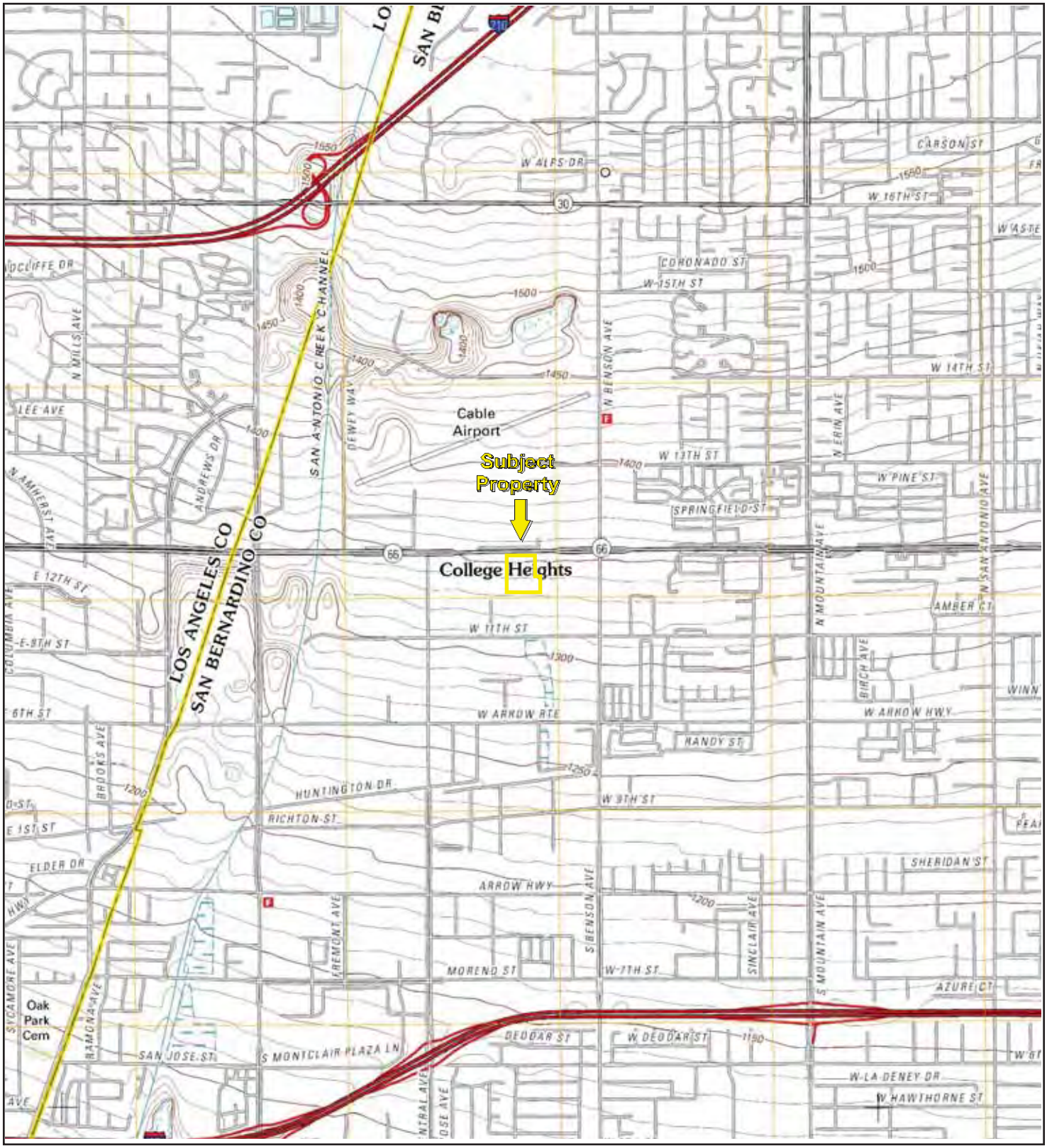


TP, Ontario, 1981, 7.5-minute

0 Miles 0.25 0.5 1 1.5

N

Key: Subject Property



TP, Ontario, 2012, 7.5-minute
N, Mount Baldy, 2012, 7.5-minute

0 Miles 0.25 0.5 1 1.5

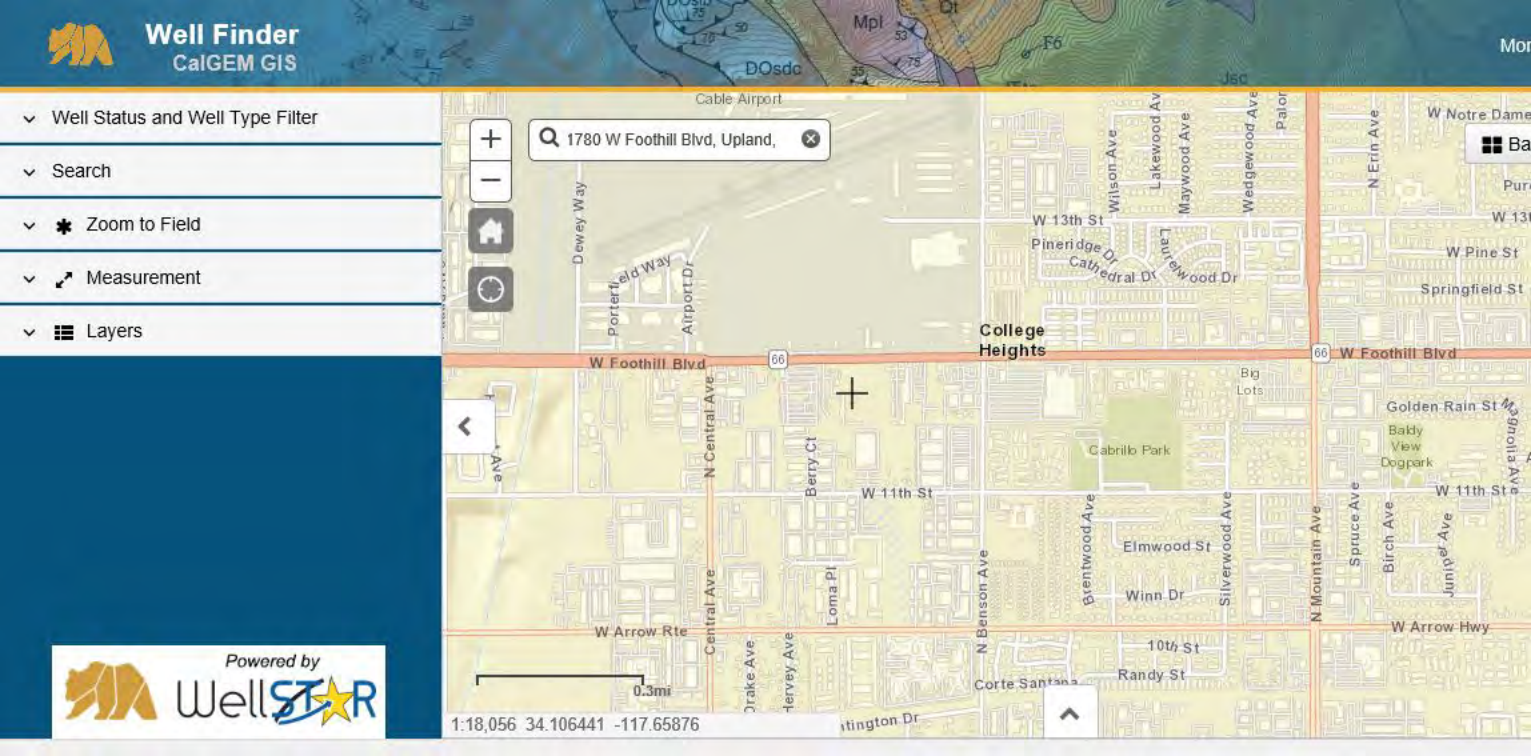
N

Key: Subject Property

APPENDIX B: Topographic Maps

Project No. 21-304796.1

PARTNER


Well Finder
CalGEM GIS
Well Status and Well Type Filter
Search
Zoom to Field
Measurement
Layers
1780 W Foothill Blvd, Upland,
Cable Airport
Dewey Way
Porterfield Way
Airport Dr
W 13th St
Pineridge Dr
Cathedral Dr
Lakewood Ave
Maywood Ave
Wedgewood Ave
Wilson Ave
N Erin Ave
W Notre Dame
W Pine St
Springfield St
College Heights
W Foothill Blvd
66
N Central Ave
Berry Ct
Big Lots
Golden Rain St
Baldy View Dogpark
Cabrillo Park
W 11th St
Elmwood St
Winn Dr
Brentwood Ave
Silverwood Ave
N Mountain Ave
Spruce Ave
Birch Ave
Juniper Ave
W Arrow Rte
W Arrow Hwy
Central Ave
Drake Ave
Hervey Ave
Loma Pl
N Benson Ave
10th St
Randy St
Corte Santana
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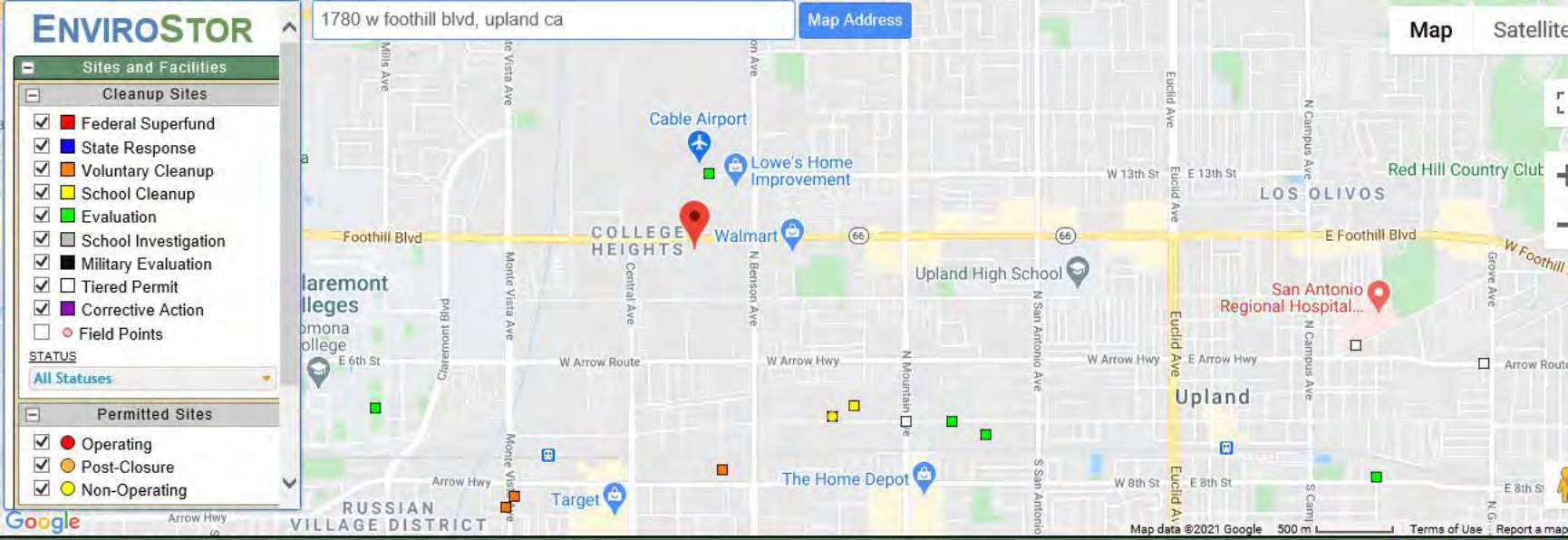
1:18,056 34.106441 -117.65876
Powered by WellSTAR

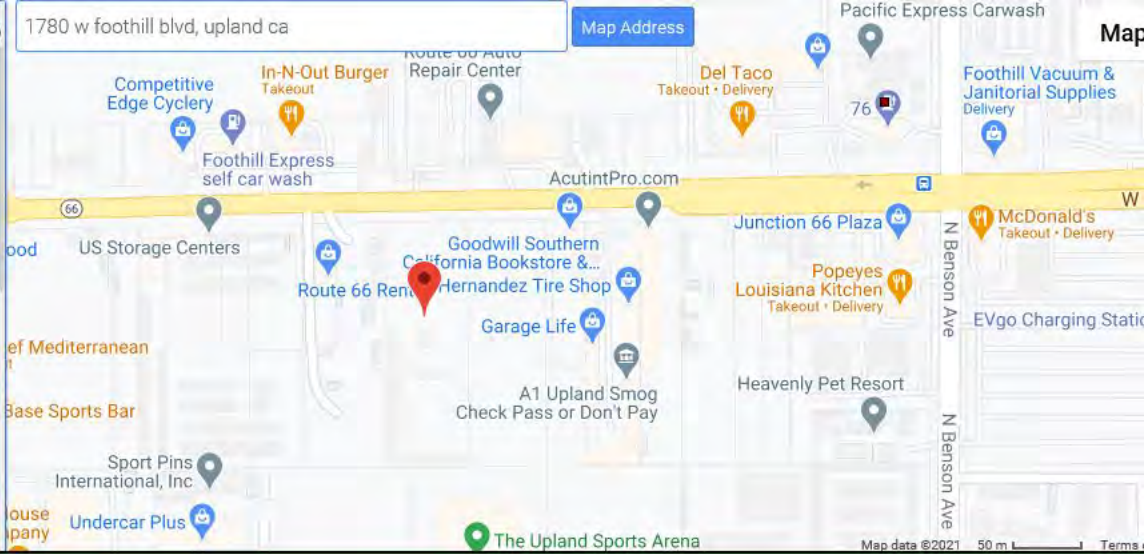


SITES CURRENTLY VISIBLE ON MAP — 18 SITES LISTED — EXPORT THIS LIST TO EXCEL

PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY
ALEXAN MONTCLAIR APARTMENTS	ACTIVE	VOLUNTARY CLEANUP	8952 MONTE VISTA AVENUE	MONTCLAIR
CABLE AIRPORT	ACTIVE	EVALUATION	1749 WEST 13TH STREET	UPLAND
CITY MAINTENANCE YARD (FORMER)	REFER: 1248 LOCAL AGENCY	EVALUATION	215 CORNELL AVE.	CLAREMONT
DYNAMIC PLATING	REFER: EPA	EVALUATION	952 W. 9TH STREET	UPLAND
FORMER WDC EXPLORATION & WELLS	NO FURTHER ACTION	VOLUNTARY CLEANUP	5566 ARROW HIGHWAY	MONTCLAIR
INTERMETRO INDUSTRIES	INACTIVE - NEEDS EVALUATION	TIERED PERMIT	9393 ARROW HIGHWAY	RANCHO CUCAMONGA

GeoTracker

- Sites and Facilities - INFO
  - Cleanup Sites
    - LUST Cleanup Sites
    - Cleanup Program Sites
    - Military Cleanup Sites
      - Military Cleanup Sites
      - Military Privatized Sites
      - Military UST Sites
    - DTSC Cleanup Sites
  - Permitted Facilities
    - Waste Discharge Requirements (WDR) Sites
    - Permitted USTs - INFO
    - DTSC Hazardous Waste Sites
    - Land Disposal Sites - SELECT NONE
      - Burn Dump
      - Compost Facility



SITES CURRENTLY VISIBLE ON MAP — 1 SITES LISTED — EXPO

SITE NAME	GLOBAL ID	FAC ID	STATUS	ADDRESS	CITY
PACIFIC CAR WASH		FA0006931		1639 W FOOTHILL BLVD	UPLAND

PAGE 2034 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SAN BERNARDINO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
FENCE CRAFT OF UPLAND
1780 W. FOOTHILL BLVD. UPLAND CA 91786

II FACILITY

	MAILING ADDRESS TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR TELEPHONE	TYPE OF BUSINESS NO. OF CONTAINERS
FENCE CRAFT OF UPLAND 1780 W. FOOTHILL BLVD UPLAND CA 91786 CROSS STREET : CENTRAL AVE.	1780 W. FOOTHILL BLVD. UPLAND CA 91786	JAMES H. SPEARS (714) 981-7095	FENCE INSTALLATION & 1

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: SPEARS, JAMES H. (714) 985-1327 NIGHT: SPEARS, JAMES H. (714) 985-1327

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000017811001 *********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG:
C. YEAR INSTALLED : UNK
D. CAPACITY (GALLONS) : 1,800
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: UNLEADED

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS:
B. VAULTING: UNKNOWN
C. WALLING: UNKNOWN
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING :
B. UNDERGROUND PIPING : SUCTION
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
VISUAL NONE 0

COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12031 UNLEADED MOTOR VEHICLE FUEL

PAGE 2533 STATE WATER RESOURCES CONTROL BOARD 06/01/88
HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR SAN BERNARDINO COUNTY
CONTAINER TYPES: 1,2,3,4,5
(1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS)

I OWNER
IGNAZIO INTRAVAIA
1770 W. FOOTHILL BLVD. UPLAND CA 91786

II FACILITY

	MAILING ADDRESS TOWNSHIP/RANGE/SECTION	DEALER/FOREMAN/SUPERVISOR TELEPHONE	TYPE OF BUSINESS NO. OF CONTAINERS
INTRAVAIA ROCK & SAND 1770 W. FOOTHILL BLVD. UPLAND CA 91786 CROSS STREET : BENSON AVE.	1770 W. FOOTHILL BLVD. UPLAND CA 91786	IGGY INTRAVAIA (714) 982-6713	TRUCKING CO. 1

III 24-HR. CONTACT PERSON / TELEPHONE
DAY: IGGY INTRAVAIA (714) 982-6713 NIGHT: IGGY INTRAVAIA (714) 982-9273

********** OWNER ASSIGNED CONTAINER NUMBER: 1 ********** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000019230001 **********

IV DESCRIPTION
A. CONTAINER TYPE : TANK
B. MANUFACTURER/YR OF MFG: /1975
C. YEAR INSTALLED : 1977
D. CAPACITY (GALLONS) : 10,000
E. REPAIRS : NONE IF YES WHEN :
F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE:
G. STORES : PRODUCT
H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL

IS CONTAINER LOCATED ON A FARM : NO

V CONTAINER CONSTRUCTION
A. THICKNESS: B. VAULTING: VAULTED C. WALLING: SINGLE
D. MATERIAL : CARBON STEEL
E. LINING : UNKNOWN
F. WRAPPING : UNKNOWN

VI PIPING
A. ABOVEGROUND PIPING : B. UNDERGROUND PIPING :
C. REPAIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:

VII LEAK DETECTION
STOCK INVENTORY 0

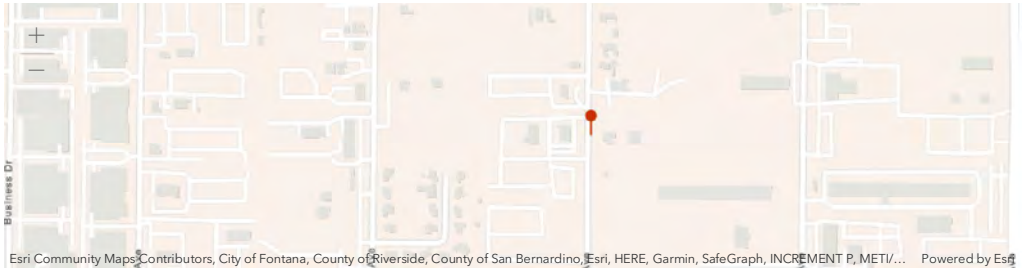
COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER
12034 DIESEL MOTOR VEHICLE FUEL

Handler Profile

Home ⁞ Search ⁞ Handler Profile

CAC002570972 - MOUNTAIN AVE BEES INC

Status: INACTIVE



ID Number Profile

ID Number:	CAC002570972
Facility Name:	MOUNTAIN AVE BEES INC
Status:	INACTIVE (expired: 6/22/2004)
ID Type:	TEMPORARY
ID Category:	STATE
Entity Types:	GENERATOR
NAICS:	
Issued Date:	10/16/2003
Last Updated:	10/29/2003

Facility Address

10673 BANANA AVE
FONTANA, CA 92337
SAN BERNARDINO
County
(34.05969271,
-117.49756006)

Mailing Address

1780 W FOOTHILL
BLVD
UPLAND, CA 91786

Owner

MOUNTAIN AVE BEES INC
1780 W FOOTHILL BLVD
UPLAND, CA 91786
(909) 981-7095

Operator

RON SPEARS
1780 W FOOTHILL BLVD
UPLAND, CA 91786
(909) 981-7095

Manifests

No Manifest Data for this ID Number.

Waste Code Matrix

Entity Type: Generator

Waste Code Type: Non-RCRA

Search Reset

Export CSV

Page Size: 10 0 to 0 of 0 Page 0 of 0

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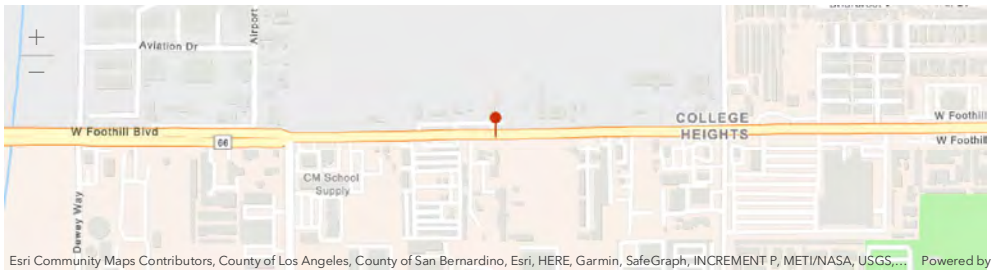
Handler Profile

Home ⁞ Search ⁞ Handler Profile

CAC000252697 - 1X FENCECRAFT

Status: INACTIVE



ID Number Profile

ID Number:	CAC000252697
Facility Name:	1X FENCECRAFT
Status:	INACTIVE (expired: 10/25/2000)
ID Type:	TEMPORARY
ID Category:	STATE
Entity Types:	GENERATOR
NAICS:	
Issued Date:	2/22/1990
Last Updated:	10/25/2000

Facility Address

1780 W. FOOTHILL BLVD.
UPLAND, CA 91786
SAN BERNARDINO County
(34.10675476, -117.68550966)

Mailing Address

1780 W. FOOTHILL BLVD.
UPLAND, CA 91786

Owner

JAMES SPEARS
--
--, 99 --
(000) 000-0000

Operator

PAT KEENEY-GEN. MGR.
--
--, 99 --
(714) 981-7095

Manifests

No Manifest Data for this ID Number.

Waste Code Matrix

Entity Type: Generator

Waste Code Type: Non-RCRA

Search Reset

Export CSV

Page Size: 10 0 to 0 of 0 Page 0 of 0

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THIS MAP IS FOR THE PURPOSE OF AD VALOREM TAXATION ONLY.

Ptn. College Heights Tract, M.B. 17/77-78

City of Upland
Tax Rate Area
8040,8068

1007 - 09

1"=100'

1006/57

1006/55

N.E. COR. SEC.11

FOOTHILL BOULEVARD

AVENUE

BENSON

Par. 1 (20)

Par. 2 (21)

Par. 3 (22)

Par. 4 (23)

P.M. 182/52-54

Ptn. 1

T.R.A. 8040/8068

091

06

10

08

PTN. LOT 5

4

3

2

1

16

15

01 2.76 AC.

02 2.7 AC.

03

04

05

06

07

08 1.82 AC.

09

10

50 60 60 50 40 44

159.23 188.94 44.5 62.97 92 47.5 82.5 127.05 97.57 185.46 163.82 21.64 151.03 116 116.04 184.33 160.64 356.06 193.07 325.61 276 130 276.05 64.75 59.14 140.86 189.17 97 33 100 100 131.25 66.25 67.75 611.7 615.99 350 80 (620.28)

REVISED
03/16/07 BK

September 2004

Parcel Map No. 14936, P.M. 182/52-54

Ptn. N.E.1/4, Sec.11
T.1S.,R.8W.

Assessor's Map
Book 1007 Page 09
San Bernardino County

Property Information Management System

San Bernardino County

Office of the Assessor

PIMS PACKAGE REPORT FOR PARCEL 1007-091-01-0000

Property Information

Property Address (Main Situs)	Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Owner and Mailing Address	SPEARS, RONALD & MICHELE RV TR 04/03/14 Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Effective Date	09/15/2020

Parcel	1007091010000
Parcel Status	ACTIVE
Parcel Type	REAL PROPERTY
Property ID	
Tax Status	ASSESSED BY COUNTY
Use Code	LT INDUST
Land Access	PUBLIC PAVED
Size	1.501 TO 3.500 ACRES
Land Type	COMMERCIAL
District	ONTARIO
Resp Group	REAL PROPERTY
Resp Unit	COMMERCIAL ZONE OR USE

Current Owners

		Document Numbers
Name	**SPEARS, RONALD & MICHELE RV TR 04/03/14**	
R/I	TRUST REVOCABLE	20180271397
% Int	100.0000000	
Type	BILLED OWNER	
Acquisition Date	07/26/2018	
Document Date	07/26/2018	
Inactive Date	NONE	

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	1007091010000			

Legal Description

COLLEGE HGTS TR E 59.14 FT LOT 5 AND W 14O.86 FT LOT 4 EX PTN W1TH1N STS 2.76 AC M/L

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Prior Roll History

Year: 2020

TRA	8068	**Land Value**	2,070,600
Supplement	NO	**Improvement Value**	1,305,600
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, RONALD & MICHELE RV TR 04/03/14	**Total Penalties**	0
Joint Owner		**Total Value**	3,376,200
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**3,376,200**

Year: 2019

TRA	8068	**Land Value**	2,030,000
Supplement	NO	**Improvement Value**	1,280,000
Correction Date	09/25/2019	**Improvement Penalty**	0
Correction Code	540I	**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, RONALD & MICHELE RV TR 04/03/14	**Total Penalties**	0
Joint Owner		**Total Value**	3,310,000
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**3,310,000**

Year: 2018

TRA	8068	**Land Value**	151,034
Supplement	YES	**Improvement Value**	325,927
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	HAJ PROPERTIES LLC	**Total Penalties**	0
Joint Owner		**Total Value**	476,961
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**476,961**

Year: 2017

TRA	8068	**Land Value**	148,073
Supplement	NO	**Improvement Value**	319,536
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	HAJ PROPERTIES LLC	**Total Penalties**	0
Joint Owner		**Total Value**	467,609
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**467,609**

Year: 2016

TRA	8068	**Land Value**	145,170
Supplement	NO	**Improvement Value**	313,271
Correction Date	02/22/2017	**Improvement Penalty**	0
Correction Code	540D	**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	HAJ PROPERTIES LLC	**Total Penalties**	0
Joint Owner		**Total Value**	458,441
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**458,441**

Year: 2015

TRA	8068	**Land Value**	289,003
Supplement	NO	**Improvement Value**	403,523
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	692,526
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**692,526**

Year: 2014

TRA	8068	**Land Value**	283,342
Supplement	NO	**Improvement Value**	395,619
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	678,961
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**678,961**

Year: 2013

TRA	8068	**Land Value**	282,061
Supplement	NO	**Improvement Value**	393,831
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	675,892
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**675,892**

Year: 2012

TRA	8068	**Land Value**	276,530
Supplement	NO	**Improvement Value**	386,109
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	662,639
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**662,639**

Year: 2011

TRA	8068	**Land Value**	271,108
Supplement	NO	**Improvement Value**	378,538
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	649,646
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**649,646**

Year: 2010

TRA	8068	**Land Value**	269,082
Supplement	NO	**Improvement Value**	375,709
Correction Date	08/06/2010	**Improvement Penalty**	0
Correction Code	570D	**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	644,791
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**644,791**

Year: 2009

TRA	8068	**Land Value**	269,721
Supplement	NO	**Improvement Value**	376,602
Correction Date	08/06/2010	**Improvement Penalty**	0
Correction Code	570D	**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	646,323
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**646,323**

Year: 2008

TRA	8068	**Land Value**	264,432
Supplement	NO	**Improvement Value**	369,218
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	633,650
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**633,650**

Year: 2007

TRA	8068	**Land Value**	259,247
Supplement	NO	**Improvement Value**	361,978
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	621,225
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**621,225**

Year: 2006

TRA	113003	**Land Value**	254,164
Supplement	NO	**Improvement Value**	354,880
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	609,044
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**609,044**

Year: 2005

TRA	113003	**Land Value**	249,180
Supplement	NO	**Improvement Value**	347,922
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	597,102
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**597,102**

Year: 2004

TRA	113003	**Land Value**	244,294
Supplement	NO	**Improvement Value**	341,100
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	585,394
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**585,394**

Year: 2003

TRA	113003	**Land Value**	239,817
Supplement	NO	**Improvement Value**	334,848
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	574,665
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**574,665**

Year: 2002

TRA	113003	**Land Value**	235,115
Supplement	NO	**Improvement Value**	328,282
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	563,397
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**563,397**

Year: 2001

TRA	113003	**Land Value**	230,505
Supplement	NO	**Improvement Value**	321,845
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST	**Total Penalties**	0
Joint Owner	SPEARS-DAVIDSON, NADINE J	**Total Value**	552,350
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**552,350**

Year: 2000

TRA	113003	**Land Value**	225,985
Supplement	NO	**Improvement Value**	315,534
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, J & M REVOC TRUST (1-11-99)TR	**Total Penalties**	0
Joint Owner		**Total Value**	541,519
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**541,519**

Year: 1999

TRA	113003	**Land Value**	221,554
Supplement	NO	**Improvement Value**	309,347
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	530,901
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**530,901**

Year: 1998

TRA	113003	**Land Value**	217,529
Supplement	NO	**Improvement Value**	303,728
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	521,257
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**521,257**

Year: 1997

TRA	113003	**Land Value**	213,264
Supplement	NO	**Improvement Value**	297,773
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	511,037
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**511,037**

Year: 1996

TRA	113003	**Land Value**	209,082
Supplement	NO	**Improvement Value**	291,934
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	501,016
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**501,016**

Year: 1995

TRA	113003	**Land Value**	206,786
Supplement	NO	**Improvement Value**	288,729
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	495,515
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**495,515**

Year: 1994

TRA	113003	**Land Value**	204,354
Supplement	NO	**Improvement Value**	285,333
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	489,687
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**489,687**

Year: 1993

TRA	113003	**Land Value**	200,347
Supplement	NO	**Improvement Value**	279,738
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	480,085
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**480,085**

Year: 1992

TRA	113003	**Land Value**	196,419
Supplement	NO	**Improvement Value**	274,253
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	470,672
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**470,672**

Year: 1991

TRA	113003	**Land Value**	192,568
Supplement	NO	**Improvement Value**	268,875
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	461,443
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**461,443**

Year: 1990

TRA	113003	**Land Value**	188,792
Supplement	NO	**Improvement Value**	263,603
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	452,395
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**452,395**

Year: 1989

TRA	113003	**Land Value**	185,090
Supplement	NO	**Improvement Value**	258,434
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	443,524
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**443,524**

Year: 1988

TRA	113003	**Land Value**	181,461
Supplement	NO	**Improvement Value**	253,367
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	434,828
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**434,828**

Year: 1987

TRA	113003	**Land Value**	177,903
Supplement	NO	**Improvement Value**	248,399
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	426,302
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**426,302**

Year: 1986

TRA	113003	**Land Value**	174,415
Supplement	NO	**Improvement Value**	243,528
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	417,943
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**417,943**

Year: 1985

TRA	113003	**Land Value**	130,825
Supplement	NO	**Improvement Value**	238,660
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	369,485
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**369,485**

Year: 1984

TRA	113003	**Land Value**	128,260
Supplement	NO	**Improvement Value**	233,980
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	362,240
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**362,240**

Year: 1983

TRA	113003	**Land Value**	125,745
Supplement	NO	**Improvement Value**	199,980
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	325,725
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**325,725**

Year: 1982

TRA	113003	**Land Value**	124,500
Supplement	NO	**Improvement Value**	198,000
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, JAMES H	**Total Penalties**	0
Joint Owner		**Total Value**	322,500
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**322,500**

Year: 1981

TRA	0	**Land Value**	105,100
Supplement	NO	**Improvement Value**	120,140
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	225,240
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**225,240**

Year: 1980

TRA	0	**Land Value**	25,760
Supplement	NO	**Improvement Value**	16,505
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	42,265
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**42,265**

Year: 1979

TRA	0	**Land Value**	18,360
Supplement	NO	**Improvement Value**	15,555
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	33,915
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**33,915**

Year: 1978

TRA	0	**Land Value**	18,000
Supplement	NO	**Improvement Value**	15,250
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	33,250
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**33,250**

Year: 1976

TRA	0	**Land Value**	18,000
Supplement	NO	**Improvement Value**	4,325
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091010000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	22,325
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**22,325**

Parcel History

Event Date	07/26/2018	**Multi Parcel List**
Event Group/Type	TRANSFER - 100% PER RECORDED DOCUMENT	
Multi Parcel	No	

Event Date	08/05/2015	**Multi Parcel List**
Event Group/Type	TRANSFER - 100% PER RECORDED DOCUMENT	
Multi Parcel	No	

Event Date	12/31/2009	**Multi Parcel List**
Event Group/Type	REVIEW - PROP 8 INITIATED BY ASSESSOR	
Multi Parcel	No	

Event Date	12/31/2008	**Multi Parcel List**
Event Group/Type	REVIEW - PROP 8 INITIATED BY TAXPAYER	
Multi Parcel	No	

Event Date	07/18/2008	**Multi Parcel List**
Event Group/Type	TRANSFER - 100% PER RECORDED DOCUMENT	1007091010000 TOT-TRF
Multi Parcel	Yes	1007091020000 TOT-TRF
		1007091030000 TOT-TRF

Event Date	01/01/2007	**Multi Parcel List**
Event Group/Type	TRA EVENT - CHANGE TRA ON SINGLE OR MULTIPLE PARCE	1007061010000 TRA-RNG
		1007061020000 TRA-RNG
Multi Parcel	Yes	1007061040000 TRA-RNG
		1007061050000 TRA-RNG
		1007061060000 TRA-RNG
		1007061070000 TRA-RNG
		1007061080000 TRA-RNG
		1007061100000 TRA-RNG
		1007061110000 TRA-RNG
		1007061120000 TRA-RNG
		1007061130000 TRA-RNG
		1007061140000 TRA-RNG
		1007061170000 TRA-RNG
		1007061200000 TRA-RNG

1007071010000 TRA-RNG
1007071030000 TRA-RNG
1007071070000 TRA-RNG
1007071080000 TRA-RNG
1007071090000 TRA-RNG
1007071091000 TRA-RNG
1007071100000 TRA-RNG
1007071110000 TRA-RNG
1007071120000 TRA-RNG
1007071130000 TRA-RNG
1007071140000 TRA-RNG
1007071150000 TRA-RNG
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1007301070000 TRA-RNG
1007301080000 TRA-RNG
1007301090000 TRA-RNG

1007301100000 TRA-RNG
1007301110000 TRA-RNG

Event Date	07/19/2000	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	
Multi Parcel	No	

Event Date	07/19/2000	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	
Multi Parcel	No	

Event Date	09/20/1999	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	
Multi Parcel	No	

Event Date	07/08/1992	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	05/29/1985	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	12/30/1983	**Multi Parcel List**
Event Group/Type	NEW CONST - WORKED IN OLD SYSTEM	
Multi Parcel	No	

Event Date	02/02/1982	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	12/29/1981	**Multi Parcel List**
Event Group/Type	NEW CONST - ALL NEW IMPS	
Multi Parcel	No	

Event Date	12/15/1981	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	12/15/1981	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	04/10/1980	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	
Multi Parcel	No	

Event Date	12/20/1979	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	
Multi Parcel	No	

Event Date	02/28/1978	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	09/21/1977	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	
Multi Parcel	No	

Event Date	02/28/1973	**Multi Parcel List**
Event Group/Type	CREATE - WORKED IN OLD SYSTEM (NONREPAR)	
Multi Parcel	No	

Ownership History

Owner Name: SPEARS, RONALD & MICHELE RV TR 04/03/14

R/I	TRUST REVOCABLE
% Int	100.0000000
Type	BILLED OWNER
Acquisition Date	07/26/2018
Document Date	07/26/2018
Inactive Date	NONE

Document Numbers

20180271397

Owner Name: (ERR) SPEARS, RONALD & MICHELLE RV TR

R/I	TRUST REVOCABLE
% Int	100.0000000
Type	BILLED OWNER
Acquisition Date	07/26/2018
Document Date	07/26/2018
Inactive Date	07/25/2018

Document Numbers

20180271397

Owner Name: HAJ PROPERTIES LLC

R/I	SOLE OWNER
% Int	4.8000000
Type	OTHER OWNER
Acquisition Date	08/05/2015
Document Date	08/05/2015
Inactive Date	07/25/2018

Document Numbers

20150335275

Owner Name: HAJ PROPERTIES LLC

R/I	SOLE OWNER
% Int	3.4000000
Type	OTHER OWNER
Acquisition Date	08/05/2015
Document Date	08/05/2015
Inactive Date	07/25/2018

Document Numbers

20150335275

Owner Name: HAJ PROPERTIES LLC

		Document Numbers
R/I	SOLE OWNER	
% Int	3.4000000	20150335275
Type	OTHER OWNER	
Acquisition Date	08/05/2015	
Document Date	08/05/2015	
Inactive Date	07/25/2018	

Owner Name: HAJ PROPERTIES LLC

		Document Numbers
R/I	SOLE OWNER	
% Int	2.0000000	20150335275
Type	OTHER OWNER	
Acquisition Date	08/05/2015	
Document Date	08/05/2015	
Inactive Date	07/25/2018	

Owner Name: HAJ PROPERTIES LLC

		Document Numbers
R/I	SOLE OWNER	
% Int	26.4000000	20150335275
Type	OTHER OWNER	
Acquisition Date	08/05/2015	
Document Date	08/05/2015	
Inactive Date	07/25/2018	

Owner Name: HAJ PROPERTIES LLC

		Document Numbers
R/I	SOLE OWNER	
% Int	60.0000000	20150335275
Type	BILLED OWNER	
Acquisition Date	08/05/2015	
Document Date	08/05/2015	
Inactive Date	07/25/2018	

Owner Name: SPEARS, J & M REVOC TRUST (1-11-99)TR

R/I	TENANCY IN COMMON
% Int	3.2000000
Type	OTHER OWNER
Acquisition Date	09/20/1999
Document Date	09/20/1999
Inactive Date	08/04/2015

Document Numbers

20000256108

Owner Name: SPEARS, STEVEN & CINDI REVOC TRUST

R/I	TENANCY IN COMMON
% Int	20.0000000
Type	BILLED OWNER
Acquisition Date	07/19/2000
Document Date	07/19/2000
Inactive Date	08/04/2015

Document Numbers

20000256107
20000256109

Owner Name: DAVIDSON, GREGORY

R/I	TENANCY IN COMMON
% Int	10.0000000
Type	OTHER OWNER
Acquisition Date	07/19/2000
Document Date	07/19/2000
Inactive Date	08/04/2015

Document Numbers

20000256107
20000256109

Owner Name: SPEARS, MICHELLE L

R/I	TENANCY IN COMMON
% Int	10.0000000
Type	OTHER OWNER
Acquisition Date	07/19/2000
Document Date	07/19/2000
Inactive Date	08/04/2015

Document Numbers

20000256107
20000256109

Owner Name: SPEARS, RONALD H

R/I	TENANCY IN COMMON
% Int	10.0000000
Type	OTHER OWNER
Acquisition Date	07/19/2000
Document Date	07/19/2000
Inactive Date	08/04/2015

Document Numbers

20000256107
20000256109

Owner Name: SPEARS-DAVIDSON, NADINE J

R/I	TENANCY IN COMMON
% Int	10.0000000
Type	JOINT MAIL OWNER
Acquisition Date	07/19/2000
Document Date	07/19/2000
Inactive Date	08/04/2015

Document Numbers

20000256107
20000256109

Owner Name: SPEARS, STEVEN & CINDI REVOC TRUST

R/I	TENANCY IN COMMON
% Int	18.4000000
Type	OTHER OWNER
Acquisition Date	07/08/1992
Document Date	07/08/1992
Inactive Date	08/04/2015

Document Numbers

9228188100000

Owner Name: SPEARS, NADINE J

R/I	TENANCY IN COMMON
% Int	2.0000000
Type	OTHER OWNER
Acquisition Date	12/15/1981
Document Date	12/15/1981
Inactive Date	08/04/2015

Document Numbers

8127156600000

Owner Name: SPEARS, NADINE J

R/I	TENANCY IN COMMON
% Int	3.4000000
Type	OTHER OWNER
Acquisition Date	04/10/1980
Document Date	04/10/1980
Inactive Date	08/04/2015

Document Numbers

19800088083

Owner Name: SPEARS, NADINE J

R/I	TENANCY IN COMMON
% Int	3.4000000
Type	OTHER OWNER
Acquisition Date	12/20/1979
Document Date	12/20/1979
Inactive Date	08/04/2015

Document Numbers

9838000001275

Owner Name: SPEARS, NADINE J

R/I	TENANCY IN COMMON
% Int	4.8000000
Type	OTHER OWNER
Acquisition Date	01/23/1978
Document Date	01/23/1978
Inactive Date	08/04/2015

Document Numbers

9352000001228

Owner Name: SPEARS, NADINE J

R/I	TENANCY IN COMMON
% Int	4.8000000
Type	OTHER OWNER
Acquisition Date	09/21/1977
Document Date	09/21/1977
Inactive Date	08/04/2015

Document Numbers

9267000001107

Owner Name: (VOID/JDGE) JUST MY IMAGINATION PROD INC

R/I	CORPORATION
% Int	100.0000000
Type	BILLED OWNER
Acquisition Date	07/18/2008
Document Date	07/06/2010
Inactive Date	07/17/2008

Document Numbers

20080328513
20100268371

Owner Name: SPEARS, JAMES H

R/I	TENANCY IN COMMON
% Int	30.0000000
Type	BILLED OWNER
Acquisition Date	07/19/2000
Document Date	07/19/2000
Inactive Date	07/18/2000

Document Numbers

20000256108

Owner Name: SPEARS, MARILYN N

R/I	TENANCY IN COMMON
% Int	30.0000000
Type	OTHER OWNER
Acquisition Date	07/19/2000
Document Date	07/19/2000
Inactive Date	07/18/2000

Document Numbers

20000256108

Owner Name: SPEARS, J & M REVOC TRUST (1-11-99)TR

R/I	TENANCY IN COMMON
% Int	63.2000000
Type	BILLED OWNER
Acquisition Date	09/20/1999
Document Date	09/20/1999
Inactive Date	07/18/2000

Document Numbers

19990394625

Owner Name: SPEARS, MARILYN N (CM JAMES)

R/I	TENANCY IN COMMON
% Int	9.2000000
Type	OTHER OWNER
Acquisition Date	05/29/1985
Document Date	05/29/1985
Inactive Date	09/19/1999

Document Numbers

8512737900000

Owner Name: SPEARS, JAMES H

R/I	TENANCY IN COMMON
% Int	9.2000000
Type	OTHER OWNER
Acquisition Date	05/29/1985
Document Date	05/29/1985
Inactive Date	09/19/1999

Document Numbers

8512737900000

Owner Name: SPEARS, JAMES H

R/I	TENANCY IN COMMON
% Int	4.0000000
Type	OTHER OWNER
Acquisition Date	02/02/1982
Document Date	02/02/1982
Inactive Date	09/19/1999

Document Numbers

8202174400000

Owner Name: SPEARS, MARILYN N

R/I	TENANCY IN COMMON
% Int	4.0000000
Type	OTHER OWNER
Acquisition Date	02/02/1982
Document Date	02/02/1982
Inactive Date	09/19/1999

Document Numbers

8202174400000

Owner Name: SPEARS, JAMES H

		Document Numbers
R/I	TENANCY IN COMMON	
% Int	2.0000000	19810271566
Type	BILLED OWNER	
Acquisition Date	12/15/1981	
Document Date	12/15/1981	
Inactive Date	09/19/1999	

Owner Name: SPEARS, MARILYN N

		Document Numbers
R/I	TENANCY IN COMMON	
% Int	2.0000000	19810271566
Type	OTHER OWNER	
Acquisition Date	12/15/1981	
Document Date	12/15/1981	
Inactive Date	09/19/1999	

Owner Name: SPEARS, JAMES H

		Document Numbers
R/I	TENANCY IN COMMON	
% Int	3.4000000	19800088083
Type	OTHER OWNER	
Acquisition Date	04/10/1980	
Document Date	04/10/1980	
Inactive Date	09/19/1999	

Owner Name: SPEARS, MARILYN N

		Document Numbers
R/I	TENANCY IN COMMON	
% Int	3.4000000	19800088083
Type	OTHER OWNER	
Acquisition Date	04/10/1980	
Document Date	04/10/1980	
Inactive Date	09/19/1999	

Owner Name: SPEARS, JAMES H

		Document Numbers
R/I	TENANCY IN COMMON	
% Int	3.4000000	9838000001275
Type	OTHER OWNER	
Acquisition Date	12/20/1979	
Document Date	12/20/1979	
Inactive Date	09/19/1999	

Owner Name: SPEARS, MARILYN N

		Document Numbers
R/I	TENANCY IN COMMON	
% Int	3.4000000	9838000001275
Type	OTHER OWNER	
Acquisition Date	12/20/1979	
Document Date	12/20/1979	
Inactive Date	09/19/1999	

Owner Name: SPEARS, JAMES H

		Document Numbers
R/I	TENANCY IN COMMON	
% Int	4.8000000	9352000001228
Type	OTHER OWNER	
Acquisition Date	01/23/1978	
Document Date	01/23/1978	
Inactive Date	09/19/1999	

Owner Name: SPEARS, MARILYN N

		Document Numbers
R/I	TENANCY IN COMMON	
% Int	4.8000000	9352000001228
Type	OTHER OWNER	
Acquisition Date	01/23/1978	
Document Date	01/23/1978	
Inactive Date	09/19/1999	

Owner Name: SPEARS, JAMES H

R/I	TENANCY IN COMMON
% Int	4.8000000
Type	OTHER OWNER
Acquisition Date	09/21/1977
Document Date	09/21/1977
Inactive Date	09/19/1999

Document Numbers

9267000001107

Owner Name: SPEARS, MARILYN N

R/I	TENANCY IN COMMON
% Int	4.8000000
Type	OTHER OWNER
Acquisition Date	09/21/1977
Document Date	09/21/1977
Inactive Date	09/19/1999

Document Numbers

9267000001107

Owner Name: SPEARS, STEVEN H

R/I	TENANCY IN COMMON
% Int	2.0000000
Type	OTHER OWNER
Acquisition Date	12/15/1981
Document Date	12/15/1981
Inactive Date	07/07/1992

Document Numbers

19810271566

Owner Name: SPEARS, STEVEN H

R/I	TENANCY IN COMMON
% Int	3.4000000
Type	OTHER OWNER
Acquisition Date	04/10/1980
Document Date	04/10/1980
Inactive Date	07/07/1992

Document Numbers

19800088083

Owner Name: SPEARS, STEVEN H

R/I	TENANCY IN COMMON
% Int	3.4000000
Type	OTHER OWNER
Acquisition Date	12/20/1979
Document Date	12/20/1979
Inactive Date	07/07/1992

Document Numbers

9838000001275

Owner Name: SPEARS, STEVEN H

R/I	TENANCY IN COMMON
% Int	4.8000000
Type	OTHER OWNER
Acquisition Date	01/23/1978
Document Date	01/23/1978
Inactive Date	07/07/1992

Document Numbers

9352000001228

Owner Name: SPEARS, STEVEN H

R/I	TENANCY IN COMMON
% Int	4.8000000
Type	OTHER OWNER
Acquisition Date	09/21/1977
Document Date	09/21/1977
Inactive Date	07/07/1992

Document Numbers

9267000001107

Owner Name: SPEARS, RONALD H

R/I	TENANCY IN COMMON
% Int	2.0000000
Type	OTHER OWNER
Acquisition Date	12/15/1981
Document Date	12/15/1981
Inactive Date	05/28/1985

Document Numbers

8127156600000

Owner Name: SPEARS, RONALD H

R/I	TENANCY IN COMMON
% Int	3.4000000
Type	OTHER OWNER
Acquisition Date	04/10/1980
Document Date	04/10/1980
Inactive Date	05/28/1985

Document Numbers

19800088083

Owner Name: SPEARS, RONALD H

R/I	TENANCY IN COMMON
% Int	3.4000000
Type	OTHER OWNER
Acquisition Date	12/20/1979
Document Date	12/20/1979
Inactive Date	05/28/1985

Document Numbers

9838000001275

Owner Name: SPEARS, RONALD H

R/I	TENANCY IN COMMON
% Int	4.8000000
Type	OTHER OWNER
Acquisition Date	01/23/1978
Document Date	01/23/1978
Inactive Date	05/28/1985

Document Numbers

9352000001228

Owner Name: SPEARS, RONALD H

R/I	TENANCY IN COMMON
% Int	4.8000000
Type	OTHER OWNER
Acquisition Date	09/21/1977
Document Date	09/21/1977
Inactive Date	05/28/1985

Document Numbers

9267000001107

Owner Name: (ERROR)SPEARS, ELIZABETH S

R/I	TENANCY IN COMMON
% Int	12.8000000
Type	OTHER OWNER
Acquisition Date	01/01/1973
Document Date	02/02/1982
Inactive Date	02/01/1982

Document Numbers

8202174400000

Owner Name: (ERROR)SPEARS, HAROLD J

R/I	TENANCY IN COMMON
% Int	12.8000000
Type	OTHER OWNER
Acquisition Date	01/01/1973
Document Date	02/02/1982
Inactive Date	02/01/1982

Document Numbers

8202174400000

Owner Name: SPEARS, ELIZABETH S (SP HAROLD)

R/I	TENANCY IN COMMON
% Int	4.0000000
Type	OTHER OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	02/01/1982

Document Numbers

19810271566

Owner Name: SPEARS, HAROLD J

R/I	TENANCY IN COMMON
% Int	4.0000000
Type	OTHER OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	02/01/1982

Document Numbers

19810271566

Owner Name: SPEARS, ELIZABETH S (SP HAROLD)

R/I	TENANCY IN COMMON
% Int	9.0000000
Type	OTHER OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	12/14/1981

Document Numbers

19800088083

Owner Name: SPEARS, HAROLD J

R/I	TENANCY IN COMMON
% Int	9.0000000
Type	BILLED OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	12/14/1981

Document Numbers

19800088083

Owner Name: SPEARS, ELIZABETH S (SP HAROLD)

R/I	TENANCY IN COMMON
% Int	17.5000000
Type	OTHER OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	04/09/1980

Document Numbers

9838000001275

Owner Name: SPEARS, HAROLD J

R/I	TENANCY IN COMMON
% Int	17.5000000
Type	BILLED OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	04/09/1980

Document Numbers

9838000001275

Owner Name: SPEARS, ELIZABETH S (SP HAROLD)

R/I	TENANCY IN COMMON
% Int	26.0000000
Type	OTHER OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	12/19/1979

Document Numbers

9352000001228

Owner Name: SPEARS, HAROLD J

R/I	TENANCY IN COMMON
% Int	26.0000000
Type	BILLED OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	12/19/1979

Document Numbers

9352000001228

Owner Name: SPEARS, ELIZABETH S (SP HAROLD)

R/I	TENANCY IN COMMON
% Int	38.0000000
Type	OTHER OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	02/27/1978

Document Numbers

9267000001107

Owner Name: SPEARS, HAROLD J

R/I	TENANCY IN COMMON
% Int	38.0000000
Type	BILLED OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	02/27/1978

Document Numbers

9267000001107

Owner Name: SPEARS, ELIZABETH S

R/I	UNKNOWN
% Int	0.0000000
Type	JOINT MAIL OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	09/20/1977

Document Numbers

Owner Name: SPEARS, HAROLD J

R/I	UNKNOWN
% Int	0.0000000
Type	BILLED OWNER
Acquisition Date	01/01/1973
Document Date	01/01/1973
Inactive Date	09/20/1977

Document Numbers

Supplement History

Supplement Date: 07/26/2018

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2018	**New Land**	2,030,000
Revised IND		**New Imprv**	1,280,000
Corrected Date		**Old Land**	151,034
Correction Code		**Old Imprv**	325,927
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	09/28/2019	**Supp HOX**	0
Extract Date	01/03/2020	**Special Exem**	0
Months Prorated	11	**Impr Penalty**	0
Corr Status		**Prior Supps**	0
Original Parcel	1007091010000	**Construction in Progress**	0
		Net Value	**2,833,039**
Billed Owner	SPEARS, RONALD & MICHELE RV TR 04/03/14		
Joint Owner			

Supplement Date: 07/18/2008

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2008	**New Land**	0
Revised IND	C	**New Imprv**	0
Corrected Date	08/06/2010	**Old Land**	0
Correction Code	570C	**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	02/07/2009	**Supp HOX**	0
Extract Date	05/01/2009	**Special Exem**	0
Months Prorated	0	**Impr Penalty**	0
Corr Status	COR	**Prior Supps**	0
Original Parcel	1007091010000	**Construction in Progress**	0
		Net Value	**0**
Billed Owner	SPEARS, STEVEN & CINDI REVOC TRUST		
Joint Owner	SPEARS-DAVIDSON, NADINE J		

Supplement Date: 07/18/2008

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2008	**New Land**	2,164,000
Revised IND	Y	**New Imprv**	551,500
Corrected Date		**Old Land**	264,432
Correction Code		**Old Imprv**	369,218
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	02/07/2009	**Supp HOX**	0
Extract Date	05/01/2009	**Special Exem**	0
Months Prorated	11	**Impr Penalty**	0
Corr Status		**Prior Supps**	0
Original Parcel	1007091010000	**Construction in Progress**	0
		Net Value	**2,081,850**

Billed Owner (VOID/JDGE) JUST MY IMAGINATION PROD INC

Joint Owner

Property Information Management System

San Bernardino County

Office of the Assessor

PIMS PACKAGE REPORT FOR PARCEL 1007-091-02-0000

Property Information

Property Address (Main Situs)	Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Owner and Mailing Address	SPEARS, RONALD & MICHELE REV TR 4/3/2014 Protected per CA. Govt. Code Sect. 6254.21 Protected per CA. Govt. Code Sect. 6254.21
Effective Date	09/15/2020

Parcel	1007091020000
Parcel Status	ACTIVE
Parcel Type	REAL PROPERTY
Property ID	
Tax Status	ASSESSED BY COUNTY
Use Code	VACANT
Land Access	PUBLIC PAVED
Size	1.501 TO 3.500 ACRES
Land Type	COMMERCIAL
District	ONTARIO
Resp Group	REAL PROPERTY
Resp Unit	COMMERCIAL ZONE OR USE

Current Owners

Name	**SPEARS, RONALD & MICHELE REV TR 4/3/2014**	**Document Numbers**
R/I	TRUST REVOCABLE	20180271393
% Int	100.0000000	
Type	BILLED OWNER	
Acquisition Date	07/26/2018	
Document Date	07/26/2018	
Inactive Date	NONE	

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	1007091020000			

Legal Description

COLLEGE HEIGHTS TR E 189.17 FT LOT 4 EX ST

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Prior Roll History

Year: 2020

TRA	8068	**Land Value**	1,800,300
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, RONALD & MICHELE REV TR 4/3/2014	**Total Penalties**	0
Joint Owner		**Total Value**	1,800,300
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**1,800,300**

Year: 2019

TRA	8068	**Land Value**	1,765,000
Supplement	NO	**Improvement Value**	0
Correction Date	09/25/2019	**Improvement Penalty**	0
Correction Code	540I	**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, RONALD & MICHELE REV TR 4/3/2014	**Total Penalties**	0
Joint Owner		**Total Value**	1,765,000
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**1,765,000**

Year: 2018

TRA	8068	**Land Value**	300,277
Supplement	YES	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	HAJ PROPERTIES EAST LLC	**Total Penalties**	0
Joint Owner		**Total Value**	300,277
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**300,277**

Year: 2017

TRA	8068	**Land Value**	294,389
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	HAJ PROPERTIES EAST LLC	**Total Penalties**	0
Joint Owner		**Total Value**	294,389
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**294,389**

Year: 2016

TRA	8068	**Land Value**	288,617
Supplement	NO	**Improvement Value**	0
Correction Date	02/22/2017	**Improvement Penalty**	0
Correction Code	570D	**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	HAJ PROPERTIES EAST LLC	**Total Penalties**	0
Joint Owner		**Total Value**	288,617
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**288,617**

Year: 2015

TRA	8068	**Land Value**	284,282
Supplement	NO	**Improvement Value**	0
Correction Date	08/25/2015	**Improvement Penalty**	0
Correction Code	525N	**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner		**Total Value**	284,282
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**284,282**

Year: 2014

TRA	8068	**Land Value**	278,713
Supplement	NO	**Improvement Value**	0
Correction Date	08/25/2015	**Improvement Penalty**	0
Correction Code	525N	**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	278,713
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**278,713**

Year: 2013

TRA	8068	**Land Value**	277,453
Supplement	NO	**Improvement Value**	0
Correction Date	08/25/2015	**Improvement Penalty**	0
Correction Code	525N	**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	277,453
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**277,453**

Year: 2012

TRA	8068	**Land Value**	272,013
Supplement	NO	**Improvement Value**	0
Correction Date	08/25/2015	**Improvement Penalty**	0
Correction Code	525N	**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	272,013
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**272,013**

Year: 2011

TRA	8068	**Land Value**	266,679
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	266,679
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**266,679**

Year: 2010

TRA	8068	**Land Value**	264,686
Supplement	NO	**Improvement Value**	0
Correction Date	08/06/2010	**Improvement Penalty**	0
Correction Code	570D	**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	264,686
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**264,686**

Year: 2009

TRA	8068	**Land Value**	265,315
Supplement	NO	**Improvement Value**	0
Correction Date	08/06/2010	**Improvement Penalty**	0
Correction Code	570D	**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	265,315
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**265,315**

Year: 2008

TRA	8068	**Land Value**	260,113
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	260,113
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**260,113**

Year: 2007

TRA	8068	**Land Value**	255,013
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	255,013
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**255,013**

Year: 2006

TRA	113003	**Land Value**	250,013
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	250,013
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**250,013**

Year: 2005

TRA	113003	**Land Value**	245,111
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	245,111
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**245,111**

Year: 2004

TRA	113003	**Land Value**	240,305
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	240,305
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**240,305**

Year: 2003

TRA	113003	**Land Value**	235,901
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	235,901
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**235,901**

Year: 2002

TRA	113003	**Land Value**	231,275
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	231,275
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**231,275**

Year: 2001

TRA	113003	**Land Value**	226,740
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	226,740
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**226,740**

Year: 2000

TRA	113003	**Land Value**	222,294
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	222,294
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**222,294**

Year: 1999

TRA	113003	**Land Value**	217,935
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	217,935
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**217,935**

Year: 1998

TRA	113003	**Land Value**	213,976
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	213,976
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**213,976**

Year: 1997

TRA	113003	**Land Value**	209,780
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	209,780
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**209,780**

Year: 1996

TRA	113003	**Land Value**	205,667
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	205,667
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**205,667**

Year: 1995

TRA	113003	**Land Value**	203,409
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	203,409
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**203,409**

Year: 1994

TRA	113003	**Land Value**	201,017
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	201,017
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**201,017**

Year: 1993

TRA	113003	**Land Value**	197,075
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	197,075
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**197,075**

Year: 1992

TRA	113003	**Land Value**	193,211
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	193,211
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**193,211**

Year: 1991

TRA	113003	**Land Value**	189,423
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	189,423
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**189,423**

Year: 1990

TRA	113003	**Land Value**	185,709
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner	SPEARS, ANDREW M	**Total Value**	185,709
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**185,709**

Year: 1989

TRA	113003	**Land Value**	182,068
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner	SPEARS, ANDREW M	**Total Value**	182,068
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**182,068**

Year: 1988

TRA	113003	**Land Value**	178,498
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner	SPEARS, ANDREW M	**Total Value**	178,498
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**178,498**

Year: 1987

TRA	113003	**Land Value**	85,396
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner	SPEARS, ANDREW M	**Total Value**	85,396
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**85,396**

Year: 1986

TRA	113003	**Land Value**	83,722
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	83,722
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**83,722**

Year: 1985

TRA	113003	**Land Value**	82,080
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	82,080
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**82,080**

Year: 1984

TRA	113003	**Land Value**	80,471
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	80,471
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**80,471**

Year: 1983

TRA	113003	**Land Value**	78,893
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	78,893
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**78,893**

Year: 1982

TRA	113003	**Land Value**	78,112
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	78,112
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**78,112**

Year: 1981

TRA	0	**Land Value**	76,580
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	76,580
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**76,580**

Year: 1980

TRA	0	**Land Value**	18,770
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	18,770
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**18,770**

Year: 1979

TRA	0	**Land Value**	18,400
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	18,400
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**18,400**

Year: 1978

TRA	0	**Land Value**	18,040
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	18,040
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**18,040**

Year: 1976

TRA	0	**Land Value**	17,000
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091020000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	17,000
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**17,000**

Parcel History

		Multi Parcel List
Event Date	07/26/2018	
Event Group/Type	TRANSFER - 100% PER RECORDED DOCUMENT	1007091020000 TOT-TRF 1007091030000 TOT-TRF
Multi Parcel	Yes	

		Multi Parcel List
Event Date	08/05/2015	
Event Group/Type	TRANSFER - 100% PER RECORDED DOCUMENT	1007091020000 TOT-TRF 1007091030000 TOT-TRF
Multi Parcel	Yes	

		Multi Parcel List
Event Date	06/19/2014	
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

		Multi Parcel List
Event Date	01/11/2014	
Event Group/Type	TRANSFER - PARTIAL PER DATE OF DEATH	1007091020000 PRT-DOD 1007091030000 PRT-DOD
Multi Parcel	Yes	

		Multi Parcel List
Event Date	07/18/2008	
Event Group/Type	TRANSFER - 100% PER RECORDED DOCUMENT	1007091010000 TOT-TRF 1007091020000 TOT-TRF 1007091030000 TOT-TRF
Multi Parcel	Yes	

		Multi Parcel List
Event Date	01/01/2007	
Event Group/Type	TRA EVENT - CHANGE TRA ON SINGLE OR MULTIPLE PARCE	1007061010000 TRA-RNG 1007061020000 TRA-RNG 1007061040000 TRA-RNG 1007061050000 TRA-RNG 1007061060000 TRA-RNG 1007061070000 TRA-RNG 1007061080000 TRA-RNG 1007061100000 TRA-RNG 1007061110000 TRA-RNG 1007061120000 TRA-RNG 1007061130000 TRA-RNG 1007061140000 TRA-RNG 1007061170000 TRA-RNG 1007061200000 TRA-RNG
Multi Parcel	Yes	

1007071010000 TRA-RNG
1007071030000 TRA-RNG
1007071070000 TRA-RNG
1007071080000 TRA-RNG
1007071090000 TRA-RNG
1007071091000 TRA-RNG
1007071100000 TRA-RNG
1007071110000 TRA-RNG
1007071120000 TRA-RNG
1007071130000 TRA-RNG
1007071140000 TRA-RNG
1007071150000 TRA-RNG
1007081010000 TRA-RNG
1007081020000 TRA-RNG
1007081030000 TRA-RNG
1007081040000 TRA-RNG
1007081050000 TRA-RNG
1007081060000 TRA-RNG
1007081070000 TRA-RNG
1007081080000 TRA-RNG
1007081090000 TRA-RNG
1007081091000 TRA-RNG
1007081031000 TRA-RNG
1007091010000 TRA-RNG
1007091020000 TRA-RNG
1007091030000 TRA-RNG
1007091040000 TRA-RNG
1007091050000 TRA-RNG
1007091051000 TRA-RNG
1007091060000 TRA-RNG
1007091061000 TRA-RNG
1007091070000 TRA-RNG
1007091080000 TRA-RNG
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1007091100000 TRA-RNG
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1007301050000 TRA-RNG
1007301060000 TRA-RNG
1007301070000 TRA-RNG
1007301080000 TRA-RNG
1007301090000 TRA-RNG

		1007301100000 TRA-RNG 1007301110000 TRA-RNG
Event Date	02/25/2003	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

Event Date	02/25/2003	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

Event Date	02/18/2000	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

Event Date	09/10/1999	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

Event Date	11/09/1992	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	03/26/1991	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	09/17/1990	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	10/19/1987	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	03/23/1987	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	01/07/1959	**Multi Parcel List**
Event Group/Type	CREATE - WORKED IN OLD SYSTEM (NONREPAR)	
Multi Parcel	No	

Ownership History

Owner Name: SPEARS, RONALD & MICHELE REV TR 4/3/2014

R/I	TRUST REVOCABLE
% Int	100.0000000
Type	BILLED OWNER
Acquisition Date	07/26/2018
Document Date	07/26/2018
Inactive Date	NONE

Document Numbers

20180271393

Owner Name: HAJ PROPERTIES EAST LLC

R/I	SOLE OWNER
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	08/05/2015
Document Date	08/05/2015
Inactive Date	07/25/2018

Document Numbers

20150335276

Owner Name: HAJ PROPERTIES EAST LLC

R/I	SOLE OWNER
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	08/05/2015
Document Date	08/05/2015
Inactive Date	07/25/2018

Document Numbers

20150335276

Owner Name: HAJ PROPERTIES EAST LLC

R/I	SOLE OWNER
% Int	50.0000000
Type	BILLED OWNER
Acquisition Date	08/05/2015
Document Date	08/05/2015
Inactive Date	07/25/2018

Document Numbers

20150335276

Owner Name: SPEARS, JAMES M

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	01/11/2014
Document Date	06/19/2014
Inactive Date	08/04/2015

Document Numbers
20140219181
20140219182
20140219183

Owner Name: SPEARS, LAWRENCE D

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	01/11/2014
Document Date	06/19/2014
Inactive Date	08/04/2015

Document Numbers
20140219181
20140219182
20140219183

Owner Name: SPEARS, ROBERT W

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	01/11/2014
Document Date	06/19/2014
Inactive Date	08/04/2015

Document Numbers
20140219181
20140219182
20140219183

Owner Name: SPEARS, JAMES M

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	02/25/2003
Document Date	02/25/2003
Inactive Date	08/04/2015

Document Numbers
20030123082

Owner Name: SPEARS, LAWRENCE D

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	02/25/2003
Document Date	02/25/2003
Inactive Date	08/04/2015

Document Numbers

20030123082

Owner Name: SPEARS, ROBERT W

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	02/25/2003
Document Date	02/25/2003
Inactive Date	08/04/2015

Document Numbers

20030123082

Owner Name: SPEARS FAMILY PARTNERS

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	BILLED OWNER
Acquisition Date	02/18/2000
Document Date	02/18/2000
Inactive Date	08/04/2015

Document Numbers

20000055827

Owner Name: SPEARS, JAMES H & MARILYN N REV TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	09/10/1999
Document Date	09/10/1999
Inactive Date	08/04/2015

Document Numbers

19990383794

Owner Name: SPEARS, VIRGINIA S TR - EST OF

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	JOINT MAIL OWNER
Acquisition Date	01/11/2014
Document Date	01/11/2014
Inactive Date	06/18/2014

Document Numbers

2014011100002

Owner Name: SPEARS, VIRGINIA S TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	JOINT MAIL OWNER
Acquisition Date	01/07/1959
Document Date	09/17/1990
Inactive Date	01/10/2014

Document Numbers

19900370665

Owner Name: (VOID/JDGMT)JUST MY IMAGINATION PROD INC

R/I	CORPORATION
% Int	100.0000000
Type	BILLED OWNER
Acquisition Date	07/18/2008
Document Date	07/06/2010
Inactive Date	07/17/2008

Document Numbers

20080328513
20100268371

Owner Name: VIRGINIA, BERGER S

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	02/25/2003
Document Date	02/25/2003
Inactive Date	02/24/2003

Document Numbers

20030123081

Owner Name: SPEARS, VIRGINIA S TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	01/07/1959
Document Date	03/26/1991
Inactive Date	02/24/2003

Document Numbers

9109972200000

Owner Name: SPEARS, HAROLD J TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	BILLED OWNER
Acquisition Date	01/07/1959
Document Date	11/09/1992
Inactive Date	02/17/2000

Document Numbers

19920463832

Owner Name: SPEARS, JAMES H

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	10/19/1987
Document Date	10/19/1987
Inactive Date	09/09/1999

Document Numbers

19870372910

Owner Name: SPEARS, HAROLD J

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	BILLED OWNER
Acquisition Date	01/07/1959
Document Date	01/07/1959
Inactive Date	11/08/1992

Document Numbers

0000000000294

Owner Name: SPEARS, VIRGINIA S

R/I	SOLE OWNER
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	01/07/1959
Document Date	09/17/1990
Inactive Date	03/25/1991

Document Numbers

19900370665

Owner Name: SPEARS, VIRGINIA S (HW-ANDREW M)

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	01/07/1959
Document Date	01/07/1959
Inactive Date	09/16/1990

Document Numbers

0000000000294

Owner Name: SPEARS, ANDREW M

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	JOINT MAIL OWNER
Acquisition Date	01/07/1959
Document Date	01/07/1959
Inactive Date	09/16/1990

Document Numbers

0000000000294

Owner Name: SPEARS, ELIZABETH TEST TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	03/23/1987
Document Date	03/23/1987
Inactive Date	10/18/1987

Document Numbers

19870092700

Owner Name: SPEARS, ELIZABETH S (HW-HAROLD J)

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	01/07/1959
Document Date	01/07/1959
Inactive Date	03/22/1987

Document Numbers

0000000000294

Supplement History

Supplement Date: 07/26/2018

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2018	**New Land**	1,765,000
Revised IND		**New Imprv**	0
Corrected Date		**Old Land**	300,277
Correction Code		**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	09/28/2019	**Supp HOX**	0
Extract Date	01/03/2020	**Special Exem**	0
Months Prorated	11	**Impr Penalty**	0
Corr Status		**Prior Supps**	0
Original Parcel	1007091020000	**Construction in Progress**	0
		Net Value	**1,464,723**
Billed Owner	SPEARS, RONALD & MICHELE REV TR 4/3/2014		
Joint Owner			

Supplement Date: 07/18/2008

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2008	**New Land**	0
Revised IND	C	**New Imprv**	0
Corrected Date	08/06/2010	**Old Land**	0
Correction Code	570C	**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	11/24/2008	**Supp HOX**	0
Extract Date	01/09/2009	**Special Exem**	0
Months Prorated	0	**Impr Penalty**	0
Corr Status	COR	**Prior Supps**	0
Original Parcel	1007091020000	**Construction in Progress**	0
		Net Value	**0**
Billed Owner	SPEARS FAMILY PARTNERS		
Joint Owner	SPEARS, VIRGINIA S TR		

Supplement Date: 07/18/2008

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2008	**New Land**	2,117,000
Revised IND	Y	**New Imprv**	0
Corrected Date	02/04/2009	**Old Land**	260,113
Correction Code	540D	**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	11/24/2008	**Supp HOX**	0
Extract Date	01/09/2009	**Special Exem**	0
Months Prorated	11	**Impr Penalty**	0
Corr Status	COR	**Prior Supps**	0
Original Parcel	1007091020000	**Construction in Progress**	0
		Net Value	**1,856,887**

Billed Owner (VOID/JDGMT)JUST MY IMAGINATION PROD INC

Joint Owner

Supplement Date: 07/18/2008

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2008	**New Land**	4,181,500
Revised IND	Y	**New Imprv**	0
Corrected Date		**Old Land**	260,113
Correction Code		**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	11/24/2008	**Supp HOX**	0
Extract Date	01/09/2009	**Special Exem**	0
Months Prorated	11	**Impr Penalty**	0
Corr Status		**Prior Supps**	0
Original Parcel	1007091020000	**Construction in Progress**	0
		Net Value	**3,921,387**

Billed Owner (VOID/JDGMT)JUST MY IMAGINATION PROD INC

Joint Owner

Property Information Management System

San Bernardino County

Office of the Assessor

PIMS PACKAGE REPORT FOR PARCEL 1007-091-03-0000

Property Information

Property Address (Main Situs) Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Owner and Mailing Address SPEARS, RONALD & MICHELE REV TR 4/3/2014
Protected per CA. Govt. Code Sect. 6254.21
Protected per CA. Govt. Code Sect. 6254.21

Effective Date 09/15/2020

Parcel 1007091030000
Parcel Status ACTIVE
Parcel Type REAL PROPERTY
Property ID
Tax Status ASSESSED BY COUNTY
Use Code VACANT
Land Access PUBLIC PAVED
Size 20,000 SQ. FEET TO 1.500 ACRES
Land Type COMMERCIAL
District ONTARIO
Resp Group REAL PROPERTY
Resp Unit COMMERCIAL ZONE OR USE

Current Owners

Name SPEARS, RONALD & MICHELE REV TR 4/3/2014

Document Numbers

R/I TRUST REVOCABLE
20180271393

% Int 100.0000000
Type BILLED OWNER
Acquisition Date 07/26/2018
Document Date 07/26/2018
Inactive Date NONE

Legal Parcel Map

Parcel Map	Parcel Nbr	Unit	Book	Page
	1007091030000			

Legal Description

COLLEGE HE1GHTS TR W 97 FT LOT 3 EX HGWY AND EX N 35O FT E 8O FT W 97 FT

No Legal Reason for Change Found

No Active Homeowner's Exemptions Found

Prior Roll History

Year: 2020

TRA	8068	**Land Value**	594,192
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, RONALD & MICHELE REV TR 4/3/2014	**Total Penalties**	0
Joint Owner		**Total Value**	594,192
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**594,192**

Year: 2019

TRA	8068	**Land Value**	582,541
Supplement	NO	**Improvement Value**	0
Correction Date	09/25/2019	**Improvement Penalty**	0
Correction Code	540I	**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, RONALD & MICHELE REV TR 4/3/2014	**Total Penalties**	0
Joint Owner		**Total Value**	582,541
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**582,541**

Year: 2018

TRA	8068	**Land Value**	48,652
Supplement	YES	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	HAJ PROPERTIES EAST LLC	**Total Penalties**	0
Joint Owner		**Total Value**	48,652
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**48,652**

Year: 2017

TRA	8068	**Land Value**	47,698
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	HAJ PROPERTIES EAST LLC	**Total Penalties**	0
Joint Owner		**Total Value**	47,698
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**47,698**

Year: 2016

TRA	8068	**Land Value**	46,763
Supplement	NO	**Improvement Value**	0
Correction Date	02/22/2017	**Improvement Penalty**	0
Correction Code	570D	**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	HAJ PROPERTIES EAST LLC	**Total Penalties**	0
Joint Owner		**Total Value**	46,763
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**46,763**

Year: 2015

TRA	8068	**Land Value**	46,061
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	46,061
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**46,061**

Year: 2014

TRA	8068	**Land Value**	45,159
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	45,159
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**45,159**

Year: 2013

TRA	8068	**Land Value**	44,955
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	44,955
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**44,955**

Year: 2012

TRA	8068	**Land Value**	44,074
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	44,074
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**44,074**

Year: 2011

TRA	8068	**Land Value**	43,210
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	43,210
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**43,210**

Year: 2010

TRA	8068	**Land Value**	42,887
Supplement	NO	**Improvement Value**	0
Correction Date	08/06/2010	**Improvement Penalty**	0
Correction Code	570D	**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	42,887
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**42,887**

Year: 2009

TRA	8068	**Land Value**	42,989
Supplement	NO	**Improvement Value**	0
Correction Date	08/06/2010	**Improvement Penalty**	0
Correction Code	570D	**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	42,989
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**42,989**

Year: 2008

TRA	8068	**Land Value**	42,146
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	42,146
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**42,146**

Year: 2007

TRA	8068	**Land Value**	41,320
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	41,320
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**41,320**

Year: 2006

TRA	113003	**Land Value**	40,510
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	40,510
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**40,510**

Year: 2005

TRA	113003	**Land Value**	39,716
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	39,716
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**39,716**

Year: 2004

TRA	113003	**Land Value**	38,937
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	38,937
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**38,937**

Year: 2003

TRA	113003	**Land Value**	38,223
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	38,223
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**38,223**

Year: 2002

TRA	113003	**Land Value**	37,474
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	37,474
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**37,474**

Year: 2001

TRA	113003	**Land Value**	36,739
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS FAMILY PARTNERS	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	36,739
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**36,739**

Year: 2000

TRA	113003	**Land Value**	36,019
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, JAMES H & MARILYN N 99 REV TRUST	**Total Value**	36,019
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**36,019**

Year: 1999

TRA	113003	**Land Value**	35,313
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	35,313
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**35,313**

Year: 1998

TRA	113003	**Land Value**	34,672
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	34,672
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**34,672**

Year: 1997

TRA	113003	**Land Value**	33,992
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	33,992
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**33,992**

Year: 1996

TRA	113003	**Land Value**	33,325
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	33,325
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**33,325**

Year: 1995

TRA	113003	**Land Value**	32,959
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	32,959
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**32,959**

Year: 1994

TRA	113003	**Land Value**	32,572
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	32,572
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**32,572**

Year: 1993

TRA	113003	**Land Value**	31,933
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J TR	**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	31,933
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**31,933**

Year: 1992

TRA	113003	**Land Value**	31,307
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	31,307
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**31,307**

Year: 1991

TRA	113003	**Land Value**	30,693
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner	SPEARS, VIRGINIA S TR	**Total Value**	30,693
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**30,693**

Year: 1990

TRA	113003	**Land Value**	30,091
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner	SPEARS, ANDREW M	**Total Value**	30,091
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**30,091**

Year: 1989

TRA	113003	**Land Value**	29,501
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner	SPEARS, ANDREW M	**Total Value**	29,501
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**29,501**

Year: 1988

TRA	113003	**Land Value**	28,923
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner	SPEARS, ANDREW M	**Total Value**	28,923
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**28,923**

Year: 1987

TRA	113003	**Land Value**	13,829
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner	SPEARS, ANDREW M	**Total Value**	13,829
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**13,829**

Year: 1986

TRA	113003	**Land Value**	13,558
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	13,558
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**13,558**

Year: 1985

TRA	113003	**Land Value**	13,292
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	13,292
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**13,292**

Year: 1984

TRA	113003	**Land Value**	13,031
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	13,031
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**13,031**

Year: 1983

TRA	113003	**Land Value**	12,775
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	12,775
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**12,775**

Year: 1982

TRA	113003	**Land Value**	12,648
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner	SPEARS, HAROLD J	**Total Penalties**	0
Joint Owner		**Total Value**	12,648
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**12,648**

Year: 1981

TRA	0	**Land Value**	12,400
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	12,400
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**12,400**

Year: 1980

TRA	0	**Land Value**	3,040
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	3,040
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**3,040**

Year: 1979

TRA	0	**Land Value**	2,980
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	2,980
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**2,980**

Year: 1978

TRA	0	**Land Value**	2,920
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	2,920
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**2,920**

Year: 1976

TRA	0	**Land Value**	2,750
Supplement	NO	**Improvement Value**	0
Correction Date		**Improvement Penalty**	0
Correction Code		**Pers Prop Value**	0
Original Parcel	1007091030000	**Pers Prop Penalty**	0
Billed Owner		**Total Penalties**	0
Joint Owner		**Total Value**	2,750
		HOX Exemptions	0
		Special Exemptions	0
		Net Value	**2,750**

Parcel History

		Multi Parcel List
Event Date	07/26/2018	
Event Group/Type	TRANSFER - 100% PER RECORDED DOCUMENT	1007091020000 TOT-TRF 1007091030000 TOT-TRF
Multi Parcel	Yes	

		Multi Parcel List
Event Date	08/05/2015	
Event Group/Type	TRANSFER - 100% PER RECORDED DOCUMENT	1007091020000 TOT-TRF 1007091030000 TOT-TRF
Multi Parcel	Yes	

		Multi Parcel List
Event Date	06/19/2014	
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

		Multi Parcel List
Event Date	01/11/2014	
Event Group/Type	TRANSFER - PARTIAL PER DATE OF DEATH	1007091020000 PRT-DOD 1007091030000 PRT-DOD
Multi Parcel	Yes	

		Multi Parcel List
Event Date	07/18/2008	
Event Group/Type	TRANSFER - 100% PER RECORDED DOCUMENT	1007091010000 TOT-TRF 1007091020000 TOT-TRF 1007091030000 TOT-TRF
Multi Parcel	Yes	

		Multi Parcel List
Event Date	01/01/2007	
Event Group/Type	TRA EVENT - CHANGE TRA ON SINGLE OR MULTIPLE PARCE	1007061010000 TRA-RNG 1007061020000 TRA-RNG 1007061040000 TRA-RNG 1007061050000 TRA-RNG 1007061060000 TRA-RNG 1007061070000 TRA-RNG 1007061080000 TRA-RNG 1007061100000 TRA-RNG 1007061110000 TRA-RNG 1007061120000 TRA-RNG 1007061130000 TRA-RNG 1007061140000 TRA-RNG 1007061170000 TRA-RNG 1007061200000 TRA-RNG
Multi Parcel	Yes	

1007071010000 TRA-RNG
1007071030000 TRA-RNG
1007071070000 TRA-RNG
1007071080000 TRA-RNG
1007071090000 TRA-RNG
1007071091000 TRA-RNG
1007071100000 TRA-RNG
1007071110000 TRA-RNG
1007071120000 TRA-RNG
1007071130000 TRA-RNG
1007071140000 TRA-RNG
1007071150000 TRA-RNG
1007081010000 TRA-RNG
1007081020000 TRA-RNG
1007081030000 TRA-RNG
1007081040000 TRA-RNG
1007081050000 TRA-RNG
1007081060000 TRA-RNG
1007081070000 TRA-RNG
1007081080000 TRA-RNG
1007081090000 TRA-RNG
1007081091000 TRA-RNG
1007081031000 TRA-RNG
1007091010000 TRA-RNG
1007091020000 TRA-RNG
1007091030000 TRA-RNG
1007091040000 TRA-RNG
1007091050000 TRA-RNG
1007091051000 TRA-RNG
1007091060000 TRA-RNG
1007091061000 TRA-RNG
1007091070000 TRA-RNG
1007091080000 TRA-RNG
1007091090000 TRA-RNG
1007091100000 TRA-RNG
1007091150000 TRA-RNG
1007091160000 TRA-RNG
1007261010000 TRA-RNG
1007261020000 TRA-RNG
1007261030000 TRA-RNG
1007261040000 TRA-RNG
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1007281210000 TRA-RNG
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1007281400000 TRA-RNG
1007281410000 TRA-RNG
1007281420000 TRA-RNG
1007281430000 TRA-RNG
1007281440000 TRA-RNG
1007281450000 TRA-RNG
1007281460000 TRA-RNG
1007282010000 TRA-RNG
1007282020000 TRA-RNG
1007282070000 TRA-RNG
1007282080000 TRA-RNG
1007291010000 TRA-RNG
1007291020000 TRA-RNG
1007291030000 TRA-RNG
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1007291470000 TRA-RNG
1007291480000 TRA-RNG
1007291490000 TRA-RNG
1007291500000 TRA-RNG
1007291510000 TRA-RNG
1007291520000 TRA-RNG
1007301040000 TRA-RNG
1007301050000 TRA-RNG
1007301060000 TRA-RNG
1007301070000 TRA-RNG
1007301080000 TRA-RNG
1007301090000 TRA-RNG

1007301100000 TRA-RNG
1007301110000 TRA-RNG

Event Date	02/25/2003	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

Event Date	02/25/2003	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

Event Date	02/18/2000	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

Event Date	09/10/1999	**Multi Parcel List**
Event Group/Type	TRANSFER - PARTIAL PER RECORDED DOCUMENT	1007091020000 PRT-TRF 1007091030000 PRT-TRF
Multi Parcel	Yes	

Event Date	11/09/1992	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	03/26/1991	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	09/17/1990	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	10/19/1987	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	03/23/1987	**Multi Parcel List**
Event Group/Type	TRANSFER - WORKED IN OLD SYSTEM (100% OR PARTIAL)	
Multi Parcel	No	

Event Date	01/07/1959	**Multi Parcel List**
Event Group/Type	CREATE - WORKED IN OLD SYSTEM (NONREPAR)	
Multi Parcel	No	

Ownership History

Owner Name: SPEARS, RONALD & MICHELE REV TR 4/3/2014

R/I	TRUST REVOCABLE
% Int	100.0000000
Type	BILLED OWNER
Acquisition Date	07/26/2018
Document Date	07/26/2018
Inactive Date	NONE

Document Numbers

20180271393

Owner Name: HAJ PROPERTIES EAST LLC

R/I	SOLE OWNER
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	08/05/2015
Document Date	08/05/2015
Inactive Date	07/25/2018

Document Numbers

20150335276

Owner Name: HAJ PROPERTIES EAST LLC

R/I	SOLE OWNER
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	08/05/2015
Document Date	08/05/2015
Inactive Date	07/25/2018

Document Numbers

20150335276

Owner Name: HAJ PROPERTIES EAST LLC

R/I	SOLE OWNER
% Int	50.0000000
Type	BILLED OWNER
Acquisition Date	08/05/2015
Document Date	08/05/2015
Inactive Date	07/25/2018

Document Numbers

20150335276

Owner Name: SPEARS, JAMES M

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	01/11/2014
Document Date	06/19/2014
Inactive Date	08/04/2015

Document Numbers
20140219181
20140219182
20140219183

Owner Name: SPEARS, LAWRENCE D

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	01/11/2014
Document Date	06/19/2014
Inactive Date	08/04/2015

Document Numbers
20140219181
20140219182
20140219183

Owner Name: SPEARS, ROBERT W

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	01/11/2014
Document Date	06/19/2014
Inactive Date	08/04/2015

Document Numbers
20140219181
20140219182
20140219183

Owner Name: SPEARS, JAMES M

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	02/25/2003
Document Date	02/25/2003
Inactive Date	08/04/2015

Document Numbers
20030123082

Owner Name: SPEARS, LAWRENCE D

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	02/25/2003
Document Date	02/25/2003
Inactive Date	08/04/2015

Document Numbers

20030123082

Owner Name: SPEARS, ROBERT W

R/I	TENANCY IN COMMON
% Int	8.3300000
Type	OTHER OWNER
Acquisition Date	02/25/2003
Document Date	02/25/2003
Inactive Date	08/04/2015

Document Numbers

20030123082

Owner Name: SPEARS FAMILY PARTNERS

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	BILLED OWNER
Acquisition Date	02/18/2000
Document Date	02/18/2000
Inactive Date	08/04/2015

Document Numbers

20000055827

Owner Name: SPEARS, JAMES H & MARILYN N 99 REV TRUST

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	JOINT MAIL OWNER
Acquisition Date	10/19/1987
Document Date	09/10/1999
Inactive Date	08/04/2015

Document Numbers

19990383794

Owner Name: SPEARS, VIRGINIA S TR - EST OF

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	01/11/2014
Document Date	01/11/2014
Inactive Date	06/18/2014

Document Numbers

2014011100002

Owner Name: SPEARS, VIRGINIA S TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	01/07/1959
Document Date	02/25/2003
Inactive Date	01/10/2014

Document Numbers

20030123081

Owner Name: (VOID/JDGMT)JUST MY IMAGINATION PROD INC

R/I	CORPORATION
% Int	100.0000000
Type	BILLED OWNER
Acquisition Date	07/18/2008
Document Date	07/06/2010
Inactive Date	07/17/2008

Document Numbers

20080328513
20100268371

Owner Name: BERGER, VIRGINIA S TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	02/25/2003
Document Date	02/25/2003
Inactive Date	02/24/2003

Document Numbers

20030123081

Owner Name: SPEARS, VIRGINIA S TR

R/I	TENANCY IN COMMON
% Int	50.0000000
Type	OTHER OWNER
Acquisition Date	01/07/1959
Document Date	03/26/1991
Inactive Date	02/24/2003

Document Numbers

9109972200000

Owner Name: SPEARS, HAROLD J TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	BILLED OWNER
Acquisition Date	01/07/1959
Document Date	11/09/1992
Inactive Date	02/17/2000

Document Numbers

9246383200000

Owner Name: SPEARS, JAMES H

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	10/19/1987
Document Date	10/19/1987
Inactive Date	09/09/1999

Document Numbers

8737291000000

Owner Name: SPEARS, HAROLD J TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	BILLED OWNER
Acquisition Date	01/07/1959
Document Date	03/23/1987
Inactive Date	11/08/1992

Document Numbers

8709270000000

Owner Name: SPEARS, VIRGINIA S TR

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	JOINT MAIL OWNER
Acquisition Date	01/07/1959
Document Date	09/17/1990
Inactive Date	03/25/1991

Document Numbers

9037066500000

Owner Name: SPEARS, VIRGINIA S (HW-ANDREW M)

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	01/07/1959
Document Date	01/07/1959
Inactive Date	03/25/1991

Document Numbers

0000000000294

Owner Name: SPEARS, VIRGINIA S

R/I	SOLE OWNER
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	01/07/1959
Document Date	09/17/1990
Inactive Date	09/16/1990

Document Numbers

9037066500000

Owner Name: SPEARS, ANDREW M

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	JOINT MAIL OWNER
Acquisition Date	01/07/1959
Document Date	01/07/1959
Inactive Date	09/16/1990

Document Numbers

0000000000294

Owner Name: SPEARS, ELIZABETH S (HW-HAROLD J)

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	OTHER OWNER
Acquisition Date	01/07/1959
Document Date	01/07/1959
Inactive Date	10/18/1987

Document Numbers
0000000000294

Owner Name: SPEARS, HAROLD J

R/I	TENANCY IN COMMON
% Int	25.0000000
Type	BILLED OWNER
Acquisition Date	01/07/1959
Document Date	01/07/1959
Inactive Date	03/22/1987

Document Numbers
0000000000294

Supplement History

Supplement Date: 07/26/2018

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2018	**New Land**	582,541
Revised IND		**New Imprv**	0
Corrected Date		**Old Land**	48,652
Correction Code		**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	09/28/2019	**Supp HOX**	0
Extract Date	01/03/2020	**Special Exem**	0
Months Prorated	11	**Impr Penalty**	0
Corr Status		**Prior Supps**	0
Original Parcel	1007091030000	**Construction in Progress**	0
		Net Value	**533,889**

Billed Owner SPEARS, RONALD & MICHELE REV TR 4/3/2014

Joint Owner

Supplement Date: 07/18/2008

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2008	**New Land**	0
Revised IND	C	**New Imprv**	0
Corrected Date	08/06/2010	**Old Land**	0
Correction Code	570C	**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	11/24/2008	**Supp HOX**	0
Extract Date	01/09/2009	**Special Exem**	0
Months Prorated	0	**Impr Penalty**	0
Corr Status	COR	**Prior Supps**	0
Original Parcel	1007091030000	**Construction in Progress**	0
		Net Value	**0**

Billed Owner SPEARS FAMILY PARTNERS

Joint Owner SPEARS, JAMES H & MARILYN N 99 REV TRUST

Supplement Date: 07/18/2008

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2008	**New Land**	667,500
Revised IND	Y	**New Imprv**	0
Corrected Date	02/04/2009	**Old Land**	42,146
Correction Code	540D	**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	11/24/2008	**Supp HOX**	0
Extract Date	01/09/2009	**Special Exem**	0
Months Prorated	11	**Impr Penalty**	0
Corr Status	COR	**Prior Supps**	0
Original Parcel	1007091030000	**Construction in Progress**	0
		Net Value	**625,354**

Billed Owner (VOID/JDGMT)JUST MY IMAGINATION PROD INC

Joint Owner

Supplement Date: 07/18/2008

Roll Type	REGULAR SUPPLEMENT	**Supp Type**	OWNERSHIP TRANSFER
Supp Year	2008	**New Land**	1,318,500
Revised IND	Y	**New Imprv**	0
Corrected Date		**Old Land**	42,146
Correction Code		**Old Imprv**	0
Legal Status	SECURED	**New HOX**	0
TRA	8068	**Old HOX**	0
NOPIC Date	11/24/2008	**Supp HOX**	0
Extract Date	01/09/2009	**Special Exem**	0
Months Prorated	11	**Impr Penalty**	0
Corr Status		**Prior Supps**	0
Original Parcel	1007091030000	**Construction in Progress**	0
		Net Value	**1,276,354**

Billed Owner (VOID/JDGMT)JUST MY IMAGINATION PROD INC

Joint Owner

ENVIRONMENTAL HEALTH SERVICES

COUNTY OF SAN BERNARDINO
ENVIRONMENTAL
PUBLIC WORKS AGENCY

☑ 385 North Arrowhead Avenue • San Bernardino, CA 92415-0160 • (714) 387-4646
☐ 320 East "D" Street • Ontario, CA 91764 • (714) 391-7570
☐ 15505 Civic Drive • Victorville, CA 92392 • (619) 243-8141
☐ 17830 Arrow Highway • Fontana, CA 92335 • (714) 829-6244
☐ 57407 Twentynine Palms Highway • Yucca Valley, CA 92284
☐ San Bernardino County Vector Control Program
2355 East Fifth Street • San Bernardino, Ca 92415 • (714) 383-3200
☐ Environmental Enforcement and Housing
172 West Third Street • San Bernardino, CA 92415-0315 • (714) 387-6512/6515
☐ Air Pollution Control District
15428 Civic Drive, Suite 200, Victorville, CA 92392 • (619) 243-8200

PAUL F. RYAN, R.E.H.S.
Director

Also serving the cities of:

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Chino	Rancho Cucamonga
Colton	Redlands
Fontana	Rialto
Grand Terrace	San Bernardino
Hesperia	Twentynine Palms
Highland	Upland
Victorville	

March 27, 1990

FENCECRAFT OF UPLAND
1780 W. Foothill Blvd.
Upland, CA 91786

SUBJECT: UNDERGROUND STORAGE TANK REMOVAL AT 1780 W. FOOTHILL BLVD., UPLAND.

This Department has reviewed the reports submitted on March 26, 1990 by Calscience Environmental Labs, for the above facility. The results indicate that the amount of contamination is below that which is generally considered a problem and further investigation is not warranted at this time.

It is important to note that this does not constitute a releasing of liability for any remaining contamination or contamination not detected. Should site conditions alter, the Department may require further investigation and remedial action.

If you have any questions, please call at (714) 387-3080.

Jane A. Miller

JANE A. MILLER, EHT III
HAZARDOUS MATERIALS FIELD SERVICES

JAM:tlb

HARRY M. MAYS
County Administrative Officer
B. L. INGRAM, Administrator
Environmental Public Works Agency

Board of Supervisors
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SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT

620 South "E" Street ● San Bernardino, CA 92415-0153 ● (909) 386-8401 ● Fax (909) 386-8460

Office of the Fire Marshal
Hazardous Materials Division
sbcfire.org

Daniel R. Munsey
Fire Chief/Fire Warden

Michael A. Horton
Fire Marshal/Deputy Fire Warden

January 25, 2021

21012004 Upland RAL Partner ESI

PARTNER ENGINEERING AND SCIENCE, INC.
5454 CAMINITO BAYO
LA JOLLA, CA 92037

ATTENTION: HEATHER HODGETTS

SUBJECT: CERTIFIED RECORD SEARCH FINDINGS
1750-1780 WEST FOOTHILL BOULEVARD, UPLAND, CALIFORNIA
APN #: 1007-091-01-0000, 1007-091-02-0000, 1007-091-03-0000

This is to confirm that the San Bernardino County Hazardous Materials Division has identified records that may pertain to the subject site, as described in your request for records search.

The file(s) shown below have been retrieved for review. If you wish to view the original documents, please e-mail this office at hazmatrecords@sbcfire.org to arrange an appointment for a file review.

ACTIVE PERMIT FACILITIES: (Regulatory files for facilities with annual operating permits to maintain underground storage tanks, handle hazardous materials, and/or generate hazardous waste. Files include permits, inspections, reports, test results, correspondence, and related materials. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities still in operation).

No records of active permit facilities identified in this search.

INACTIVE PERMIT AND/OR NON-PERMIT FACILITIES: (Inactive regulatory files for formerly permitted facilities that maintained underground storage tanks, stored hazardous materials, and/or generated hazardous waste and/or facilities with underground storage tanks removed and/or materials and waste removed.
Files will also include any underground tank removal/construction activity records and site remediation/ contamination records for facilities no longer operating underground tanks).

Intravaia Rock & Sand 1770 W. Foothill Blvd. Upland	Est. # 89017873 Hazardous Waste Generator Permit Hazardous Materials Handler UST Only Permit Underground Storage Tank Permit
Fence Craft of Upland 1780 W. Foothill Blvd. Upland	Est. # 86010427 Underground Storage Tank Permit Hazardous Materials Handler UST Only Permit

BOARD OF DIRECTORS

Robert A. Lovingood, First District | Janice Rutherford, Second District | Dawn Rowe, Third District | Curt Hagman, Chairman, Fourth District | Josie Gonzales, Vice Chair, Fifth District

Leonard X. Hernandez
Chief Executive Officer

PERMITS TO REMOVE/INSTALL/MODIFY TANKS UNDERGROUND:

Intravaia Rock & Sand 1770 W. Foothill Blvd. Upland	Issued 03/08/1989 Removal – 1 – 03/16/1989 Tank rinsed by Containerized Chemical Disposal 150 lbs dry ice used. Manifested to Gibson Refining – Bakersfield- Manifest. # 88178197 Soil samples taken. Lab results for fuel hydrocarbons – N/D Log # 030889-01 ~ Job Card # 1829
Fence Craft of Upland 1780 W. Foothill Blvd. Upland	Issued 02/09/1990 Removal – 1- 03/20/1990 Backfill approved on 03/26/1990 upon soil sample test results Log # 021290-04 ~ Job Card # 2258

HAZ MAT INCIDENT RESPONSE ACTIVITY: (other records of spill notifications and/or complaints not listed below may also exist in facility permit files).

No record of hazmat incident response activity identified in this search.

SITE REMEDIATION: (Underground Storage Tank Clean-Up under Local Oversight Program or Voluntary Hazardous Waste Clean-Up activity under Local Jurisdiction) (documents may be included in regular active or inactive permit files listed above).

No record of site remediation identified in this search**.**

Records searched include permit database systems for facilities with permits as hazardous waste generators, hazardous materials handlers, and/or underground storage tanks, including inactive and/or out of business records; logs of permits issued for the removal and/or installation of underground storage tanks; records and databases pertaining to illicit dumping and releases; records of non-permitted facilities; sites undergoing remediation for contaminated soil and/or groundwater; and incidents responded to by the hazardous materials emergency response team. Records date back to mid- 1980's.

Records consist of 2 files, approximately 1". If you wish to view the original documents, please e-mail this office at hazmatrecords@sbcfire.org to arrange an appointment.

Respectfully,

Donna Juday

DONNA JUDAY
Office Specialist
Office of the Fire Marshal
Hazardous Materials Division

*We will copy pre-selected pages from a file at a charge $0.25 per page copied. (Be prepared to make this payment at the time of service). We can refer you to a private copy service or you may want to bring a portable copier on site. Please let us know your plans in advance so that accommodations can be made.

FAX (909) 949-6273
QUALITY FENCING SINCE 195
CUSTOM INSTALLATION • REPAIR
CEDAR • REDWOOD • CHAIN LINK

Fence Craft of Upland, Inc.

STATE LICENSE NO. 220653
1780 W. FOOTHILL BLVD.
UPLAND, CA 91786

PATRICK KEENEY
GENERAL MANAGER

(909) 981-7095
1-800-974-2551

CUPA
ardino County Fire Departm
SION • FIELD SERVICES/ENVIRO TAL PROTECTION
Bernardino, CA 92415-0153 • (909) 387-3080 FAX (909) 387-4323

D HAZARDOUS MATERIALS HANDLER INSPECTION REPORT

Upland Inc — Date: 6/12/02
Est. No: NA
Zip Code: 91786 — EPA ID No: NA
Facility Contact: Pat Keeney — Phone No. 981 7095 — Number of Employees:

Refer to Title 19 and Title 22 of the California Code of Regulations (CCR), Chapter 6.5 of the Health and Safety Code (CHSC) and Division 3 of Title 2 of the San Bernardino County Code (CC). The following code sections are either in Violation (V) of, or in Compliance (C) with, the applicable laws and regulations, or compliance is not applicable, not addressed or unknown (N).

GENERAL REQUIREMENTS FOR GENERATORS		V	C	N	
101. Hazardous Waste Generator Permit current	CC 23.0602(b)(1)				*
102. Facility access for inspection granted - HW only	CHSC 25185				*
103. Hazardous Waste determination made	CCR 66262.11				*
104. EPA ID Number obtained	CCR 66262.12(a)				*
105. Hazardous Waste storage/treatment authorization	CHSC 25189.5(d)				*
106. Facility operated/maintained to prevent release/fire	CCR 66265.31				*
107. Contingency Plan established	CCR 66265.51(a)				*
108. Recyclable materials managed lawfully	CHSC 25143.2				*
STORAGE AND LABELING REQUIREMENTS					
110. Hazardous Waste containers labeled	CCR 66262.34(f)(3)				
111. Hazardous Waste container label complete	CCR 66262.34(f)(3)				
112. Accumulation start date on labels	CCR 66262.34(f)(2)				
113. Hazardous Waste accumulation time not exceeded	CCR 66262.34				
114. Hazardous Waste containers sound	CCR 66265.171				*
115. Hazardous Waste containers not leaking	CCR 66265.173(b)				*
116. Hazardous Waste containers closed	CCR 66265.173(a)				
117. Contaminated containers managed properly	CCR 66261.7				*
118. Container storage area inspected weekly	CCR 66265.174				
119. Hazardous Waste managed lawfully	CHSC 25154				*
120. Aboveground Tank storage area inspected daily	CCR 66265.195				
HAZARDOUS WASTE RECORDS AND MANIFESTS					
125. Hazardous Waste transported with a manifest	CCR 66262.20(a)				*
126. Hazardous Waste manifest complete	CCR 66262.23				*
127. Hazardous Waste manifests sent to DTSC	CCR 66262.23(a)(4)				
128. Manifests retained for at least 3 years	CCR 66262.40(a)				
129. Biennial Report prepared	CCR 66262.41				
130. Hazardous Waste analyses retained for 3 years	CCR 66262.40(c)				
131. Training documentation complete & available	CCR 66265.16				*
132. SB 14 completed and available	CCR 67100.3				
MANAGEMENT OF USED OIL AND BATTERIES					
135. Used oil managed properly	CHSC 25250.4				
136. Used oil not contaminated with Hazardous Waste	CHSC 25250.7				
137. Used oil receipts complete & available	CHSC 25250.8(b)				
138. Used oil filters managed lawfully	CCR 66266.130				
139. Used batteries managed lawfully	CCR 66266.81				
DISPOSAL AND TRANSPORTATION					
145. Illegal disposal/abandonment of Hazardous Waste	CHSC 25189.5(a)				*
146. Illegal disposal of used oil	CHSC 25250.5(a)				*
147. Transportation of Hazardous Waste w/o registration	CHSC 25163				*
148. Hazardous Waste hauled by registered transporter	CHSC 25163				*
149. Haz. Waste transported to an unauthorized facility	CHSC 25189.5(c)				*

RELEASE AND RESPONSE/BUSINESS PLANS		V	C	N	
201. Hazardous Material handler permit current	CC 23.0602(b)(3)				
202. Business Plan established	CHSC 25503.5				
203. Business Plan submitted/updated	CHSC 25505				
204. Hazardous Materials release reported	CHSC 25507				
205. Facility access for inspection granted - HM Only	CHSC 25508				
206. Regulated Substances registration filed	CHSC 25533(a)				
207. SPCC Plan completed	CHSC 25270.5(c)				

INSPECTION NARRATIVE

* see enclosed report *

☐ NOTICE OF VIOLATION: THE VIOLATIONS NOTED ABOVE MUST BE CORRECTED WITHIN _____ DAYS. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.

Inspector: C Beard — Received by: Pete — Title: /

Revised 05/15/2002

CUPA
San Bernardino County Fire Department
HAZARDOUS MATERIALS DIVISION • FIELD SERVICES/ENVIRONMENTAL PROTECTION
385 N. Arrowhead Ave., 2nd Floor, San Bernardino, CA 92415-0153 • (909) 387-3080 FAX (909) 387-4323

SUPPLEMENTAL INSPECTION REPORT

FACILITY NAME:	FACILITY LOCATION:
Fence Craft of Upland, Inc	1780 W. Foothill Blvd., Upland

Facility inspected for compliance with hazardous material and hazardous waste laws and regulations. The facility was inspected with the General Manager, Patrick Keeney.

The facility sells and installs custom metal and wood fencing.
Small amount of compressed gases are used for welding or cutting – less than 200 ft^3 per cylinder.
Propane is in small cylinders for use on forklifts.
No maintenance of vehicles is done on site.

No permits required at this time.

2 building at the back of the property are subleased to beekeepers to store bee boxes, equipment and honey in 55-gallon drums.

☐ NOTICE OF VIOLATION: THE VIOLATIONS NOTED ABOVE MUST BE CORRECTED WITHIN ____ DAYS. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.

Inspector: Greg Beach Received by: File Inspection Date: 12 June 2002

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDINO, CALIFORNIA

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
ESI - 86010427 PERMIT - 8701261495

THIS PERMIT EXPIRES:
05/30/88

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - HAZARDOUS MATERIAL HANDLER, UNDERGROUND TANK ONLY

FEE PAID $40.00

FENCE CRAFT OF UPLAND
DBA FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

Richard L. Roberts
Director
ENVIRONMENTAL HEALTH SERVICES

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

RENEWAL APPLICATION FOR HEALTH PERMIT INSPECTION AND HEALTH SERVICES

SAN BERNARDINO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
385 N. ARROWHEAD AVE., SAN BERNARDINO, CA. 92415-0160

PLEASE REVIEW THE FOLLOWING INFORMATION CAREFULLY. MAKE CORRECTIONS DIRECTLY ON THE FORM BY CROSSING OUT THE PRE-PRINTED INFORMATION AND ADDING THE CHANGES. *** PLEASE PRINT. ***

ESTABLISHMENT INFO FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

< > CHECK HERE IF APPLICANT IS SAME AS LEGAL OWNER

APPLICANT INFO FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

LEGAL OWNER INFO FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

IS THIS A TRANSFER? _____

IF YES: FORMER ESTABLISHMENT NAME _____

FORMER OWNER _____

IMPORTANT: ALL CORRESPONDENCE SHOULD BE SENT TO: ___ESTABLISHMENT ADDRESS ___LEGAL OWNER ___APPLICANT

OFFICE USE ONLY
EST NBR 86010427
PERMIT NBR 8701261495
FORMER EST NBR _____
PERMIT CATEGORY 226000
EXPIR DATE 05/30/87
NEW, TRANS, RENEW R
LOC CODE 65
SANI DIST 2200
MFR NBR
APN
PERMIT FEE 40.00
STATE FEE _____
DELINQUENT FEE _____
TOTAL FEE REC'D 40.00

I HEREBY MAKE APPLICATION FOR HEALTH SERVICES AND PERMIT TO ESTABLISH AND/OR OPERATE THE ABOVE MENTIONED BUSINESS, USE, OR SERVICE IN ACCORDANCE WITH THE LAWS, ORDINANCES, AND REGULATIONS THAT ARE NOW OR MAY HEREINAFTER BE IN FORCE BY THE UNITED STATES GOVERNMENT, THE STATE OF CALIFORNIA, AND THE COUNTY OF SAN BERNARDINO PERTAINING TO THE ABOVE MENTIONED BUSINESS. I HEREBY CONSENT TO ALL NECESSARY INSPECTIONS INCIDENT TO THE ISSUANCE OF THIS PERMIT AND THE OPERATION OF THE BUSINESS.

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

SIGNED James A Spear DATED May 19, 1987 TITLE Manager

NOTICE: ALL FEES ARE DUE AND PAYABLE WITHIN 30 DAYS. FAILURE TO PAY WILL RESULT IN THE ASSESSMENT OF A DELINQUENT FEE. APPLICATION AND FEE MUST BE SUBMITTED PRIOR TO OPERATION BY ANY NEW OWNER, OR A DELINQUENT FEE WILL BE CHARGED.

County of San Bernardino
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
385 North Arrowhead Avenue, San Bernardino, CA 92415-0160 • (714) 387-3080

LOG # 021290-04 **JOB CARD #** 2258

CONSTRUCTION AND/OR REMOVAL OF UNDERGROUND STORAGE FACILITY

POST THIS CARD AT JOB SITE

Site Address FENCE CRAFT OF UPLAND
1780 W. FOOTHILL BL., UPLAND

Contractor FENCE CRAFT OF UPLAND

Address/Phone No. 1780 W. FOOTHILL, UPLAND 981-7095

	Inspection Record	Approved By	Date
First Inspection	Excavation Clean, Approved Slope		
	Bedding Materials/Depth		
	Holiday Test, Tanks Set		
	Additional Requirements:		
	Do Not Backfill Until Above Approved		
Second Inspection	Tank Air Test 5 PSI/30 Minutes		
	Product Lines 75 PSI/30 Minutes		
	Product Line Containment		
	Metal Piping Wrapped		
	Additional Requirements:		
Final Inspection	Approved Fill Boxes		
	Concrete or AC Paving 12" Beyond Excavation		
	Leak Detectors/Monitors Installed/Operational		
	Lockable Fluid-Tight Access for Monitoring Points		
	Precision Test Results		
	Additional Requirements:		
	FINAL APPROVAL AND CURRENT OPERATING PERMITS MUST BE OBTAINED PRIOR TO PLACING THESE TANKS INTO SERVICE ($5,000.00 FINE FOR NONCOMPLIANCE)		
Tank Removal Inspection	Tank Removed X 1950	J Miller	20 Mar 90
	Required Samples 8020, 8015, 418.1	J Miller	20 Mar 90
	Additional Test Requirements: NONE		
	Removals **Can Not** Be Finaled Until A Copy Of The Sample Results Have Been Received And Approved By This Department.		
	Final — Approved for Backfill -- upon sample results		

Additional Requirements by Local Fire Authority: 3-26-90 Jmiller

Final Approved by Local Fire Authority:

Name: Title: Date:

FAILURE TO PROTECT AND MAINTAIN THIS CARD MAY RESULT IN JOB DELAY.
PRESERVE THIS RECORD OF INSPECTIONS.

FOR INSPECTION CALL 48 HOURS IN ADVANCE AT (714) 387-3080.

THIS PERMIT EXPIRES 6 MONTHS FROM DATE OF ISSUANCE

DISTRIBUTION: White — DEHS Copy
Yellow — APCD Copy
Green — Owner's Copy

14-16867-631 Rev. 7/89

re Agency _____

Submit to:
San Bernardino County Department of Environmental Health Services
385 North Arrowhead, San Bernardino, CA 92415-0160

APPLICATION FOR REMOVAL OF UNDERGROUND STORAGE TANK

FEE:
$ 300.00 First Tank
$ 100.00 Each Additional Tank

Date 2/9/90

JOB LOCATION

Facility Name or Contact Person Fence Craft of Upland, Inc. — *Phone No.* (714) 981-7095
Situs Address 1780 W. Foothill Blvd.
City Upland, — *State* Ca. — *Zip Code* 91786

CONTRACTOR

Name Fence Craft of Upland, Inc. — *Phone No.* (714) 981-7095
Mailing Address 1780 W. Foothill Blvd.
City Upland — *State* Ca. — *Zip Code* 91786

OWNER

Name Fence Craft of Upland, Inc. — *Phone No.* (714) 981-7095
Mailing Address 1780 W. Foothill Blvd.
City Upland — *State* Ca. — *Zip Code* 91786

TANK DATA

Construction	Size	Contents	U.L. Number
Steel Gas Tank	1,950 ga.	Supreme Unleaded Gas	Unknown
Underground, with			
Submerged fill.			

Workman's Comp. Carrier and Policy No. Liberty Mutual-WC2-161-031468-019

Water Sewer Agency _____

NOTE: The State of California has determined that tanks used for the storage of any hazardous or flammable substance shall be considered hazardous even if all contents have been removed.

All storage tanks shall be hauled as hazardous waste, accompanied by a state hazardous waste manifest, and taken to a licensed treatment, storage and disposal facility (TSDF); or if the tanks are triple rinsed on site and the rinsate manifested and hauled to a licensed TSDF, the tank may be handled as nonhazardous.

For information on licensed TSDF's that can accept nonrinsed tanks contact the State of California Department of Health Services, Toxic Substance Control at (213) 620-2380.

Signature James T. Speas

Date 2/9/90

Dt.#86010427

All fees are current

03-17445-631

(65) **OFFICE USE ONLY**

Amount 300.00
Check No. 5434
Date Paid Feb 9, 1990
Taken By Traci / Mail
Log No. 021290-04
Job Card Issued: No. 2258

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDINO, CALIFORNIA

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
EST - 86010427 PERMIT - 8701261495

THIS PERMIT EXPIRES:
05/30/90

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - HAZARDOUS MATERIAL HANDLER, UNDERGROUND TANK ONLY

FEE PAID $50.00

FENCE CRAFT OF UPLAND
DBA: FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

Director
ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDINO, CALIFORNIA

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
EST - 86010427 PERMIT - 8604080037

THIS PERMIT EXPIRES:
05/30/90

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - UNDERGROUND STORAGE TANKS

FEE PAID $140.00

FENCE CRAFT OF UPLAND
DBA: FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

NBR TANKS - 1

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

Director
ENVIRONMENTAL HEALTH SERVICES

COUNTY OF SAN BERNARDINO, CALIFORNIA
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
I N V O I C E

PAGE 1
BILL DATE 04/24/89
HEALTH PERMIT EXPIRATION DATE 05/30/89

*** REMIT COPY ***

ESTABLISHMENT NBR 86010427

FENCE CRAFT OF UPLAND
DBA: FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

PERMIT NBR	CATEGORY	DESCRIPTION	BILL CODE	AMOUNT
604080037	222800	PREVIOUS BALANCE		0.00
		UNDERGROUND STORAGE TANKS	101	140.00
		PERMIT TOTAL		140.00
701261495	226000	PREVIOUS BALANCE		0.00
		HAZARDOUS MATERIAL HANDLER, UNDERGROUND TANK ONLY	101	50.00
		PERMIT TOTAL		50.00
		TOTAL DUE		190.00

MAY 17 1989

MAY 17 1989

LL FEES ARE NOW DUE AND PAYABLE. FAILURE TO PAY WITHIN 30 DAYS AFTER THE EXPIRATION DATE OF YOUR URRENT PERMIT WILL RESULT IN THE ASSESSMENT OF A DELINQUENT FEE. DO NOT SEPARATE THESE FORMS. EVIEW, UPDATE, AND SIGN THE ATTACHED RENEWAL APPLICATION(S). RETURN REMIT COPY OF THE INVOICE ND APPLICATION(S) WITH REMITTANCE TO: ENVIRONMENTAL HEALTH SERVICES
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415-0160

F YOU HAVE QUESTIONS CONCERNING YOUR BILLING PLEASE CALL:

OOD ESTABLISHMENT PERMITS -- 387-4637
WIMMING POOL PERMITS -- 387-4637
ILK & DAIRY ESTABLISHMENTS -- 387-4608
AZARDOUS OR INFECTIOUS WASTE GENERATORS -- 387-3080
NDERGROUND STORAGE TANK PERMITS -- 387-3080
AZARDOUS MATERIAL HANDLER PERMITS -- 387-3044
MOBILEHOME PARK PERMITS -- 387-4670
MOTEL, CAMP, MASSAGE PARLOR PERMITS -- 387-4670
HOME OCCUPATION PERMITS -- 387-4678
TEMPORARY OFFICES/SIGNS -- 387-4678
REFUSE HAULERS -- 387-4655
REFUSE DISPOSAL SITES -- 387-4655
DESIGNATED MAINTENANCE AREA -- 387-4655
WATER SYSTEMS -- 387-4666
WELL DRILLERS -- 387-4666
SPECIAL USE PERMITS -- 387-4678

PAID
Amt 190 —
Date 5-17-89
By Ken

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDINO, CALIFORNIA

THIS PERMIT EXPIRES:
05/30/89

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
EST - 86010427 PERMIT - 8604080037

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - UNDERGROUND STORAGE TANKS

FEE PAID $112.00

FENCE CRAFT OF UPLAND
DBA FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

NBR TANKS - 1

Richard L. Roberts
Director
ENVIRONMENTAL HEALTH SERVICES

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDINO, CALIFORNIA

THIS PERMIT EXPIRES:
05/30/89

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
EST - 86010427 PERMIT - 8701261495

PERMIT

NON-TRANSFERABLE

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TYPE OF PERMIT - HAZARDOUS MATERIAL HANDLER, UNDERGROUND TANK ONLY

FEE PAID $40.00

FENCE CRAFT OF UPLAND
DBA FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

Richard L. Roberts
Director
ENVIRONMENTAL HEALTH SERVICES

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

COUNTY OF SAN BERNARDINO, CALIFORNIA
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
I N V O I C E

PAGE 1
BILL DATE 04/29/88
HEALTH PERMIT EXPIRATION DATE 05/30/88

*** REMIT COPY ***

ESTABLISHMENT NBR 86010427

FENCE CRAFT OF UPLAND
DBA: FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

PERMIT NBR	CATEGORY	DESCRIPTION	BILL CODE	AMOUNT
8604080037	222800	PREVIOUS BALANCE		0.00
		UNDERGROUND STORAGE TANKS	101	112.00
		PERMIT TOTAL		112.00
8701261495	226000	PREVIOUS BALANCE		0.00
		HAZARDOUS MATERIAL HANDLER, UNDERGROUND TANK ONLY	101	40.00
		PERMIT TOTAL		40.00
		TOTAL DUE		152.00

MAY 24 1988

MAY 24 1988

3888
PAID MAR 17 1988

ALL FEES ARE NOW DUE AND PAYABLE. FAILURE TO PAY WITHIN 30 DAYS AFTER THE EXPIRATION DATE OF YOUR CURRENT PERMIT WILL RESULT IN THE ASSESSMENT OF A DELINQUENT FEE. DO NOT SEPARATE THESE FORMS. REVIEW, UPDATE, AND SIGN THE ATTACHED RENEWAL APPLICATION(S). RETURN REMIT COPY OF THE INVOICE AND APPLICATION(S) WITH REMITTANCE TO: ENVIRONMENTAL HEALTH SERVICES
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415-0160

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

IF YOU HAVE QUESTIONS CONCERNING YOUR BILLING PLEASE CALL:

FOOD ESTABLISHMENT PERMITS -- 387-4637
SWIMMING POOL PERMITS -- 387-4637
MILK & DAIRY ESTABLISHMENTS -- 387-4608
HAZARDOUS OR INFECTIOUS
WASTE GENERATORS -- 387-3080
UNDERGROUND STORAGE
TANK PERMITS -- 387-3080
HAZARDOUS MATERIAL HANDLER
PERMITS -- 387-3044

MOBILEHOME PARK PERMITS -- 387-4670
MOTEL, CAMP, MASSAGE PARLOR PERMITS -- 387-4670
HOME OCCUPATION PERMITS -- 387-4678
TEMPORARY OFFICES/SIGNS -- 387-4678
REFUSE HAULERS -- 387-4655
REFUSE DISPOSAL SITES -- 387-4655
DESIGNATED MAINTENANCE AREA -- 387-4655
WATER SYSTEMS -- 387-4666
WELL DRILLERS -- 387-4666
SPECIAL USE PERMITS -- 387-4678

PAID

Amt 152.00

Date MAY 23 1988

By SKB

COUNTY OF SAN BERNARDINO, CALIFORNIA

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
EST - 86010427 PERMIT - 8604080037

THIS PERMIT EXPIRES:
05/30/88

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

INTERIM STATUS

TYPE OF PERMIT - UNDERGROUND STORAGE TANKS

FEE PAID $112.00

FENCE CRAFT OF UPLAND
DBA FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

NBR TANKS - 1

Richard L. Roberts
Director
ENVIRONMENTAL HEALTH SERVICES

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDINO, CALIFORNIA

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
EST - 86010427 PERMIT - 8702261824

THIS PERMIT EXPIRES:
05/30/91

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - UNDERGROUND STORAGE TANK STATE FEE

FEE PAID $44.80

FENCE CRAFT OF UPLAND
DBA FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

Richard L. Roberts
Director
ENVIRONMENTAL HEALTH SERVICES

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

RENEWAL APPLICATION FOR HEALTH PERMIT INSPECTION AND HEALTH SERVICES

SAN BERNARDINO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
385 N. ARROWHEAD AVE., SAN BERNARDINO, CA. 92415-0160

PLEASE REVIEW THE FOLLOWING INFORMATION CAREFULLY. MAKE CORRECTIONS DIRECTLY ON THE FORM BY CROSSING OUT THE PRE-PRINTED INFORMATION AND ADDING THE CHANGES. *** PLEASE PRINT. ***

ESTABLISHMENT INFO
FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

< > CHECK HERE IF APPLICANT IS SAME AS LEGAL OWNER

APPLICANT INFO
FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

LEGAL OWNER INFO
FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

IS THIS A TRANSFER? _____

IF YES: FORMER ESTABLISHMENT NAME _____

FORMER OWNER _____

IMPORTANT: ALL CORRESPONDENCE SHOULD BE SENT TO: ___ESTABLISHMENT ADDRESS ___LEGAL OWNER ___APPLICANT

NUMBER OF UNDERGROUND STORAGE TANKS: 001

EMERGENCY CONTACT:	POSITION:	WORK PHONE:	24-HR PHONE:
Pat Keeney	Yard Manager	981-7095	985-4269
Jim Spears	Manager	981-7095	985-1327

OFFICE USE ONLY	
EST NBR	86010427
PERMIT NBR	8604080037
FORMER EST NBR	
PERMIT CATEGORY	222800
EXPIR DATE	05/30/87
NEW, TRANS, RENEW	R
LOC CODE	65
SANI DIST	2200
MFR NBR	
APN	
PERMIT FEE	112.00
STATE FEE	
DELINQUENT FEE	
TOTAL FEE REC'D	112.00

I HEREBY MAKE APPLICATION FOR HEALTH SERVICES AND PERMIT TO ESTABLISH AND/OR OPERATE THE ABOVE MENTIONED BUSINESS, USE, OR SERVICE IN ACCORDANCE WITH THE LAWS, ORDINANCES, AND REGULATIONS THAT ARE NOW OR MAY HEREINAFTER BE IN FORCE BY THE UNITED STATES GOVERNMENT, THE STATE OF CALIFORNIA, AND THE COUNTY OF SAN BERNARDINO PERTAINING TO THE ABOVE MENTIONED BUSINESS. I HEREBY CONSENT TO ALL NECESSARY INSPECTIONS INCIDENT TO THE ISSUANCE OF THIS PERMIT AND THE OPERATION OF THE BUSINESS.

SIGNED James D Spears DATED May 19, 1987 TITLE Manager

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

NOTICE: ALL FEES ARE DUE AND PAYABLE WITHIN 30 DAYS. FAILURE TO PAY WILL RESULT IN THE ASSESSMENT OF A DELINQUENT FEE. APPLICATION AND FEE MUST BE SUBMITTED PRIOR TO OPERATION BY ANY NEW OWNER, OR A DELINQUENT FEE WILL BE CHARGED.

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDINO, CALIFORNIA

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
EST - 86010427 PERMIT - 8604080037

THIS PERMIT EXPIRES:
05/30/87

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - UNDERGROUND STORAGE TANKS

P/M 12/29/86 gc

INTERIM STATUS

FEE PAID $117.20

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

NBR TANKS - 1

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

Richard L. Roberts
Director
ENVIRONMENTAL HEALTH SERVICES

COMPUTER DATA BASE UPDATE AUTHORIZATION

**ACTION REQUESTED (Circle One) A/R

Add **Change** **Inactivate** **Delete**

**ESTABLISHMENT INFORMATION:

FENCE Craft of Upland
(Name)

1780 W Foothill Upland
(Number/Street) (City)

**PERMIT CATEGORY _____

CHANGE PERMIT CATEGORY FROM _____ TO _____

LEGAL OWNER INFORMATION:

_____
(Name)

_____
(Mailing Address) (City) (Zip)

THIS IS A **NEW** ESTABLISHMENT: _____

THIS IS A **TRANSFER**: _____

Former Establishment Name: _____

PERMIT SECTION SHOULD SEND NEW APPLICATION: _____

NEW APPLICATION HAS BEEN GIVEN TO NEW OWNER: _____

ESTABLISHMENT **NAME CHANGE ONLY** (no change in ownership):

_____
(Old Name)

_____
(New Name)

MARK DESIRED BOX(ES):

JUN 10 1986

PAID
Amt 117.20
JUN 09 1986
Date _____

	Make Change To	Date	Initial
	EH PERMIT BILLING SYSTEM		
	SWEEPS		
	ESTABLISHMENT FILE		

**EHS PERMIT BILLING SYSTEM: 86010427
(Establishment Number)

860408003 7
(Permit Number - Mandatory except for new establishment)

*SWEEPS MFR NUMBER _____ *DIST/SANI NUMBER _____

CHANGE DIST/SANI FROM _____ TO _____

**PROGRAM _____ LOCATION _____

PROGRAM SPECIFIC INFORMATION

FOOD: Seating Capacity _____

Square Footage _____

RECREATIONAL BATHING: # of Pools _____

MILK AND DAIRY: Gallons _____

HAZARDOUS MATERIALS: # of Tanks _____

# of Employees _____

HOUSING: # of Units _____

VECTOR: # of Birds _____

WASTE: Daily Tons _____

Cubic Yards _____

WATER: # of Connections _____

License Number/Expiration Date _____

License Class 1 _____ 2 _____

.....

*** = Mandatory for Food Program Only**
**** = Mandatory for ALL Programs**

HAZARDOUS WASTE & TOXICS CONTROL SECTION
APBS DATA INPUT

FACE SHEET

ACTION CODE: I Esta. # 86010427 Permit # 8604080037

ESTABLISHMENT INFO (00)

Bill to: O Location # 65 Esta. Date _____

ADDRESSING INFO (99):

E
NAME: Tenneco Coast Co Upland
ST. # 1780 FRAC: _____ DIR: W. ST. NAME: Foothill
ST. DESIG. _____ APT/SP _____
CITY Upland STATE CA ZIP 91786 PH (___) ___ - _____

A
NAME: _____
ST. # _____ FRAC: _____ DIR: _____ ST. NAME: _____
ST. DESIG. _____ APT/SP _____
CITY _____ STATE _____ ZIP _____ PH (___) ___ - _____

O
NAME: _____
ST. # _____ FRAC: _____ DIR: _____ ST. NAME: _____
ST. DESIG. _____ APT/SP _____
CITY _____ STATE _____ ZIP _____ PH (___) ___ - _____

PERMIT INFO (01):

Category: 222800 Exp. Date 5/87 San Dist Area: 22 San Dist. Emp: 00

Renewal Code: R

PROGRAM INFO:

# of Tank(s) 1

Date Entered : APR 7 1986

Control # 10036

By (Initial): DT

COMMENTS/REMARKS:

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT

620 South "E" Street • San Bernardino, CA 92415-0153 • (909) 386-8401 • Fax (909) 386-8460

Office of the Fire Marshal
Hazardous Materials Divisio
sbcfire.org

Mark A. Hartwig
Fire Chief/Fire Warden

Michael A. Horton
Fire Marshal

July 5, 2017

17062304 Upland Ral Adv GeoEnv

ADVANCED GEOENVIRONMENTAL
3335 E. MIRALOMA AVE., #142
ANAHEIM, CA 92806

ATTENTION: **JACKIE HYMAN**

SUBJECT: **CERTIFIED RECORD SEARCH FINDINGS**
1780 FOOTHILL BOULEVARD, UPLAND, CALIFORNIA

This is to confirm that the San Bernardino County Hazardous Materials Division has identified records that may pertain to the subject site, as described in your request for records search.

The file(s) shown below have been retrieved for review. If you wish to view the original documents, please e-mail this office at mmolina@sbcfire.org or call the number at the end of this letter to arrange an appointment.

ACTIVE PERMIT FACILITIES: (Regulatory files for facilities with annual operating permits to maintain underground storage tanks, handle hazardous materials, and/or generate hazardous waste. Files include permits, inspections, reports, test results, correspondence, and related materials. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities still in operation).

No record of active permit facilities identified in this search.

INACTIVE PERMIT AND/OR NON-PERMIT FACILITIES: (Inactive regulatory files for formerly permitted facilities that maintained underground storage tanks, stored hazardous materials, and/or generated hazardous waste and/or facilities with underground storage tanks removed and/or materials and waste removed. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities no longer operating underground tanks).

Fence Craft of Upland 1780 W. Foothill Upland	Est. # 86010427 Underground Storage Tank Permit Hazardous Materials Handler Permit – UST Only

PERMITS TO REMOVE/INSTALL/MODIFY UNDERGROUND STORAGE TANKS:

Fence Craft of Upland 1780 W. Foothill Blvd. Upland	Issued 02/09/1990 Removal Log # 021290-04 ~ Job Card # 2258

BOARD OF SUPERVISORS

Robert A. Lovingood	Janice Rutherford	James Ramos	Curt Hagman	Josie Gonzales	Dena Smith
Chairman, First District	Second District	Third District	Vice Chairman, Fourth District	Fifth District	Interim Chief Executive Officer

HAZARDOUS MATERIAL INCIDENT AND/OR COMPLAINT RESPONSE ACTIVITY: (other records of spill notifications and/or complaints not listed below may also exist in facility permit files).

No record of hazardous material incident and/or complaint response activity identified in this search.

SITE REMEDIATION: (Underground Storage Tank Clean-Up under Local Oversight Program or Voluntary Hazardous Waste Clean-Up activity under Local Jurisdiction) (documents may be included in regular active or inactive permit files listed above).

No record of site remediation identified in this search.

Records searched include permit database systems for facilities with permits as hazardous waste generators, hazardous materials handlers, and/or underground storage tanks, including inactive and/or out of business records; logs of permits issued for the removal and/or installation of underground storage tanks; records and databases pertaining to illicit dumping and releases; records of non-permitted facilities; sites undergoing remediation for contaminated soil and/or groundwater; and incidents responded to by the hazardous materials emergency response team. Records searched date back to early 1980's. Please note if a facility has completed a submission in CERS, the most recent submission can be made available for review upon request.

Records consist of 1 file(s), approximately 40 pages, combined. To request a file review appointment or further clarification, please contact this office (909) 386-8468 or by email to mmolina@sbcfire.org.

Donna Juday

DONNA JUDAY
Office Specialist
Office of the Fire Marshal
Hazardous Materials Division

*We will copy pre-selected pages from a file at a charge $0.25 per page copied. (Be prepared to make this payment at the time of service). We can also refer you to a private copy service. If you prefer to bring a portable copier on site, you may do so. Please let us know your plans in advance so that accommodations can be made.

CUPA
San Bernardino County Fire Department • Hazardous Materials Division
620 S. E St., San Bernardino, CA 92415-0153 • (909) 386-8468 FAX (909) 386-8460

REQUEST FOR A CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT

The main focus of a REQUEST FOR A CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT is to determine whether there exists in San Bernardino County Fire Department (County Fire) files any record relating to contamination or reports of spills at a particular site. A Certified Hazardous Materials Records Search Finding Report should reveal whether there are any facilities at the site that are subject to current or past regulatory activity by County Fire, such as underground storage tanks, hazardous material handlers, hazardous waste generators, and EPCRA or CalARP facilities, as well as any reports of spills, incidents, complaints, or cleanup activity, that can be a useful tool in providing a history of compliance or non-compliance.

Once County Fire has completed its records search, a Certified Hazardous Materials Records Search Finding Report will be prepared and issued, which will detail all County Fire records associated with a particular site by type, date, location, and status where applicable. (Any files identified in a Certified Hazardous Materials Records Search Finding Report can be made available for copies and/or review upon request.)

If the completed records search reveals no County Fire record of hazardous material activity at the site, a Certified Hazardous Materials Records Search Finding Report will be issued, noting that "no records" were identified.

Please provide a specific site address or location description. If a situs address does not exist or cannot be found, list another type of location identifier such as Assessor Parcel Number (preferable), cross streets or intersections (e.g., NWC 5th Ave. & Main St.), and/or legal description, and if possible attach a map to this request form.

SITE INFORMATION		
Property Owner or Business Name	Location (Site Address and/or Assessor Parcel No.) 1780 Foothill Blvd.	City/Community Upland

Please provide your name, the company you represent, and contact information below.

REQUESTOR INFORMATION				
NAME Jackie Hyman	TITLE (*If individual, leave blank*) Staff Geologist	COMPANY (*If individual, leave blank*) Advanced GeoEnvironmental		
MAILING ADDRESS 3335 E. Miraloma Ave., #142	CITY Anaheim		STATE CA	ZIP CODE 92806
TELEPHONE 800-511-9300	FAX 714-529-0203	EMAIL ADDRESS erottacker@advgeoenv.com		

So that we may provide better service, please check one or more of the boxes below which best describe how the findings of the Certified Hazardous Materials Records Search will be used and/or your relationship to the property in question.

PURPOSE OR RELATIONSHIP TO PROPERTY

- [x] 1. Phase I site assessment or due diligence **AT THE SITE**
- [ ] 2. Environmental professional involved with remediation **AT THE SITE**
- [ ] 3. Phase I site assessment or due diligence **NEARBY**
- [ ] 4. Environmental professional involved with remediation **NEARBY**
- [ ] 5. Proposed School Site (1/4 mi. search for AHM)
- [ ] 6. Proposed Drinking Water Well
- [ ] 7. Owner or operator of the facility or property
- [ ] 8. Potential buyer
- [ ] 9. Real Estate Agent, Lender, Appraiser
- [ ] 10. Pending escrow
- [ ] 11. Proposed redevelopment
- [ ] 12. Legal or other reason: _____

AGENCY USE

Certified Record Search Finding Report issued: __/__/__	Reference No: 17062304
Certified No Record Finding Report issued: __/__/__	Amount Paid:
	Receipt No.:
	Date:

** IMPORTANT –THIS PAGE MUST BE SIGNED PRIOR TO SUBMITTAL **

DISCLAIMER: While all attempts are made to provide accurate, current, and reliable information, County Fire recognizes the possibility of human error. Therefore, County Fire, its officers, employees, agents and volunteers, make no representations as to the accuracy, completeness or suitability of a Certified Hazardous Materials Records Search Finding Report and provides a Certified Hazardous Materials Records Search Finding Report "as is", with no warranties, express or implied, including the implied warranty of fitness for a particular purpose. In no event shall County Fire be liable for any damages of any nature whatsoever, arising out of the issuance of a Certified Hazardous Materials Records Search Finding Report. County Fire therefore assumes no liability for damages incurred directly or indirectly as a result of any errors, omissions or discrepancies in a Certified Hazardous Materials Records Search Finding Report.

RELEASE AND INDEMNIFICATION: In consideration for the issuance of a Certified Hazardous Materials Records Search Finding Report, I hereby release and forever discharge County Fire, its officers, employees, agents and volunteers from any and all claims, actions, losses, damages and/or liability in connection with County Fire's issuance of a Certified Hazardous Materials Records Search Finding Report, including, but not limited to, claims that may arise due to the active or passive negligence of County Fire, its officers, employees, agents and volunteers.

I am familiar with the provisions of California Civil Code Section 1542, which provides as follows:

"A general release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the release, which if known by him or her must have materially affected his or her settlement with the debtor."

I hereby expressly waive any and all rights that I may have there under. I understand and acknowledge the significance and consequence of this specific waiver of California Civil Code Section 1542 and assume full responsibility for any injuries, damages, losses or liabilities that I may hereafter discover as possibly resulting from County Fire's issuance of a Certified Hazardous Materials Records Search Finding Report.

In further consideration for County Fire's issuance of a Certified Hazardous Materials Records Search Finding Report, I hereby agree, for myself, my heirs, administrators, executors and assigns, that I shall indemnify, defend (with counsel approved by County) and hold harmless County Fire, its officers, employees, agents and volunteers from any and all claims, demands, actions or suits arising out of or in connection with County Fire's issuance of a Certified Hazardous Materials Records Search Finding Report brought by any third party.

* * *

I have read the above terms and conditions, including the paragraphs entitled "DISCLAIMER" and "RELEASE AND INDEMNIFICATION", and by my signature below, I affirm that I understand these terms and conditions and accept them as part of my REQUEST FOR A CERTIFIED HAZARDOUS MATERIALS RECORDS SEARCH FINDING REPORT.

I hereby request a Certified Hazardous Materials Records Search Finding Report for the location described on Page 1 of this application.

- ☐ **I am including payment of the initial fee of $130.00, for the first hour of research, by check or money order, payable to San Bernardino County Fire Dept. I understand that research exceeding one hour will be billed at the rate of $130.00 for each additional hour spent by County Fire in completing this request.**
- ☒ **I have faxed or emailed this request and will forward payment along with the original request form within 48 hours.**

REQUESTOR'S SIGNATURE	
SIGNATURE OF REQUESTOR	DATE 6/23/17

Rev. 2/13/2014

SAN BERNARDINO COUNTY
FIRE DEPARTMENT

COUNTY OF SAN BERNARDINO

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

MARK A. HARTWIG
Fire Chief/Fire Warden

January 27, 2016

16012701 Upland Rail LOR

LOR GEOTECHNICAL GROUP, INC.
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

ATTENTION: **MATHEW L. HUNT**

SUBJECT: **CERTIFIED RECORD SEARCH FINDINGS**
1780 WEST FOOTHILL BOULEVARD, UPLAND, CALIFORNIA
APN: 1007-091-01-0000 THROUGH 1007-091-03-0000

This is to confirm that the San Bernardino County Hazardous Materials Division has identified records that may pertain to the subject site, as described in your request for records search.

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Fence Craft of Upland 1780 W. Foothill Upland	Est. 86010427 Underground Storage Tank Permit Hazardous Material Handler Permit – UST Only

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Fence Craft of Upland 1780 W. Foothill Blvd. Upland	Issued 02/09/1990 Removal Log #021290-04 ~ Job Card #2258

GREGORY C. DEVEREAUX
Chief Executive Officer

Board of Supervisors
ROBERT A. LOVINGOOD .....First District
JANICE RUTHERFORD.....Second District
JOSIE GONZALES ..... Fifth District
JAMES RAMOS ..... Third District
GARY C. OVITT.....Fourth District

HAZARDOUS MATERIAL INCIDENT AND/OR COMPLAINT RESPONSE ACTIVITY: (other records of spill notifications and/or complaints not listed below may also exist in facility permit files).

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Michelle McClain

MICHELLE MCCLAIN
Office Specialist
Office of the Fire Marshal
Hazardous Materials Division

MM:mm

*We will copy up to forty (40) pre-selected pages from a file at a charge $0.10 per page copied. (Be prepared to make this payment at the time of service). If the copies selected exceed forty (40) pages or if you want a copy of the entire file and it exceeds forty (40) pages, we will refer you to a private copy service. If you prefer to bring a portable copier on site, you may do so. Please let us know your plans in advance so that accommodations can be made.

CUPA
San Bernardino County Fire Department • Hazardous Materials Division
620 S. E St., San Bernardino, CA 92415-0153 • (909) 386-8468 FAX (909) 386-8460

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Project No. 13245.2

SITE INFORMATION		
Property Owner or Business Name	Location (Site Address and/or Assessor Parcel No.)	City/Community
Haj Properties, LLC	APNs 1007-091-01, -02, -03/1780 West Foothill Boulevard	Upland

Please provide your name, the company you represent, and contact information below.

REQUESTOR INFORMATION				
NAME	TITLE (*If individual, leave blank*)	COMPANY (*If individual, leave blank*)		
Mathew L. Hunt	Environmental Scientist	LOR Geotechnical Group, Inc.		
MAILING ADDRESS	CITY		STATE	ZIP CODE
6121 Quail Valley Court	Riverside		CA	92507
TELEPHONE	FAX	EMAIL ADDRESS		
951-653-1760	951-653-1741	mhunt@lorgeo.com		

So that we may provide better service, please check one or more of the boxes below which best describe how the findings of the Certified Hazardous Materials Records Search will be used and/or your relationship to the property in question.

PURPOSE OR RELATIONSHIP TO PROPERTY

- [x] 1. Phase I site assessment or due diligence **AT THE SITE**
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- [ ] 11. Proposed redevelopment
- [ ] 12. Legal or other reason: _____

AGENCY USE	
Certified Record Search Finding Report issued: ___/___/___	WK 4
Certified No Record Finding Report Issued: ___/___/___	Reference No: 16012701
	Amount Paid:
	Receipt No.:
	Date:

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* * *

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- ☑ **I have faxed or emailed this request and will forward payment along with the original request form within 48 hours.**

REQUESTOR'S SIGNATURE	
SIGNATURE OF REQUESTOR	DATE
Matthew L Hunt	January 27, 2016

Rev. 9/19/2012

ENVIRONMENTAL HEALTH SERVICES

COUNTY OF SAN BERNARDINO
ENVIRONMENTAL
PUBLIC WORKS AGENCY

☑ 385 North Arrowhead Avenue • San Bernardino, CA 92415-0160 • (714) 387-4646
☐ 320 East "D" Street • Ontario, CA 91764 • (714) 391-7570
☐ 15505 Civic Drive • Victorville, CA 92392 • (619) 243-8141
☐ 17830 Arrow Highway • Fontana, CA 92335 • (714) 829-6244
☐ 57407 Twentynine Palms Highway • Yucca Valley, CA 92284
☐ San Bernardino County Vector Control Program
2355 East Fifth Street • San Bernardino, Ca 92415 • (714) 383-3200
☐ Environmental Enforcement and Housing
172 West Third Street • San Bernardino, CA 92415-0315 • (714) 387-6512/6515
☐ Air Pollution Control District
15428 Civic Drive, Suite 200, Victorville, CA 92392 • (619) 243-8200

PAUL F. RYAN, R.E.H.S.
Director

Also serving the cities of:

Adelanto	Loma Linda
Apple Valley	Montclair
Barstow	Needles
Big Bear Lake	Ontario
Chino	Rancho Cucamonga
Colton	Redlands
Fontana	Rialto
Grand Terrace	San Bernardino
Hesperia	Twentynine Palms
Highland	Upland
Victorville	

March 27, 1990

FENCECRAFT OF UPLAND
1780 W. Foothill Blvd.
Upland, CA 91786

SUBJECT: UNDERGROUND STORAGE TANK REMOVAL AT 1780 W. FOOTHILL BLVD., UPLAND.

This Department has reviewed the reports submitted on March 26, 1990 by Calscience Environmental Labs, for the above facility. The results indicate that the amount of contamination is below that which is generally considered a problem and further investigation is not warranted at this time.

It is important to note that this does not constitute a releasing of liability for any remaining contamination or contamination not detected. Should site conditions alter, the Department may require further investigation and remedial action.

If you have any questions, please call at (714) 387-3080.

Jane A. Miller

JANE A. MILLER, EHT III
HAZARDOUS MATERIALS FIELD SERVICES

JAM:tlb

HARRY M. MAYS
County Administrative Officer
B. L. INGRAM, Administrator
Environmental Public Works Agency

Board of Supervisors
MARSHA TUROCI . . . . . First District
JON D. MIKELS . . . . . Second District
ROBERT L. HAMMOCK . . . . . Fifth District
BARBARA CRAM RIORDAN . . . . Third District
LARRY WALKER . . . . . Fourth District

Form Approved OMB No. 2050-0039 (Expires 9-30-

Please print or type (Form designed for use on elite (12-pitch typewriter).

Department of Health Servi
Toxic Substances Control Divi
Sacramento, Califor

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000268717 | Manifest Document No. 90052707

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Fence Craft of Upland Inc.
1730 W. Foothill, Upland, CA 91786

4. Generator's Phone (714) 981-7095

A. State Manifest Document Number 90052707

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone (213) 537-

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone (213) 537-765

5. Transporter 1 Company Name | 6. US EPA ID Number
Containerized Chemical Disposal | CAD009118808

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number
DeMenno Kerdoon
2000 N. Alameda Street
Compton, CA 90222 | CAD008366852

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a.		DM	1	G
b.				
c.				
d.				

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16.

GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: James J. Sparks | Signature | Month 10 Day 31 Year 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: David Gonzalez | Signature | Month 10 Day 31 Year 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name: Curtis E. Kellogg | Signature: Curtis E. Kellogg | Month 10 Day 31

Do Not Write Below This Line

GREEN, HAULER RETAINS

DHS 8022 A (1/88)
EPA 8700-22
(Rev. 9-88) Previous editions are obsolete

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

Fence Craft of Upland, Inc.

1780 WEST FOOTHILL BLVD.
UPLAND, CALIFORNIA 91786
714-981-7095

DATE: 5-26-90

PLEASE DELIVER THE FOLLOWING TELECOPY TO:

NAME: Jane

FIRM: Department of Environmental Health Services

TELECOPIER # 714-387-4323 PHONE # 387-3050

FROM: [illegible]

FIRM: Fence Craft of Upland, Inc.

TELECOPIER # (714) 949-6273 PHONE # (714) 981-7095

TOTAL NUMBER OF PAGES (INCLUDING COVER PAGE) 2

COMMENTS: Test Wells

805 + 802

Project [illegible] Valve #2258

IF ALL PAGES ARE NOT RECEIVED OR YOU HAVE ANY QUESTIONS PLEASE CALL: [illegible] AT (714) 981-7095.

Enviroscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

Container 200 Chemical Disposal
10845 Silicon Avenue
Montclair, CA 91763

Date Sampled: 03/20/9
Date Received: 03/20/9
Date Extracted: 03/20/9
Date Analyzed: 03/21/9
CEL Batch No.: 90-03-08

Attn: Francis Passarelli
RE: Fence Craft of Upland

Method: EPA 8020

All concentrations are reported in ug/kg (ppb).

	Concentration	Det'n Limit
Sample Number: 1		
Benzene	250	50
Toluene	350	50
Chlorobenzene	ND	50
Ethylbenzene	300	50
Total Xylenes	1150	50
1,2-Dichlorobenzene	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	ND	50
Sample Number: 2		
Benzene	ND	50
Toluene	ND	50
Chlorobenzene	ND	50
Ethylbenzene	ND	50
Total Xylenes	50	50
1,2-Dichlorobenzene	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	ND	50

Reviewed and Approved: Steven F. Lane on 03/24/1440
Steven Lane
Laboratory Director

ND denotes not detected at indicated limit.

Each sample was received by CEL in a chilled state, intact and with chain-of-custody attached.

11801 Seaboard Circle Stanton CA 90680 • TEL (714) 895-5494 • FAX

Inscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

Containerized Chemical Disposal
10660 Silicon Avenue
Montclair, CA 91763

Date Sampled: 03/20/9
Date Received: 03/20/9
Date Extracted: 03/22/9
Date Analyzed: 03/22/9
CEL Batch No.: 90-03-08

Attn: Francis Passarelli
RE: Fenco Craft of Upland

Method: EPA 8015M

All concentrations are reported in mg/kg (ppm) as gasoline and diesel constituents.

Sample Number	Concentration	Det'n. Limit
1	ND	5
2	ND	5

Reviewed and Approved Steven P. Lane 03/23/1990
Steven Lane
Laboratory Director

EPA 8015M is conducted in accordance with the DHS Method for Total Petroleum Hydrocarbons.

ND denotes not detected at indicated detection limit.

Each sample was received by CEL in a chilled state, intact and with chain-of-custody attached.

11631 Seaboard Circle, Stanton, CA 90680 • TEL (714) 895-5494 • FAX (714) 894-7501

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
12631 SEABOARD CIRCLE
STANTON, CA 90680
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date: 3-20-90

Page 1 of 1

LABORATORY CLIENT:* Contained Chemical Disposal

CLIENT PROJECT NAME / NUMBER: Fence Corp of Upland

ADDRESS: 10780 S. Main AVE

PROJECT CONTACT: Francis Frascella

CITY: Montclair STATE: Ca ZIP: 91763

TEL: 714-625-6645 FAX: 714-624-8477

SAMPLER(S): (SIGNATURE) Fran Frascella

TURN AROUND TIME DESIRED: ☐ SAME DAY (100 %) ☐ 24 HOURS (50%) ☐ 48 HOURS (25%) ☑ 10 DAYS

Prior confirmation with CEL is recommended for rush samples

LABORATORY WORK ORDER NUMBER:

SHIPMENT METHOD:

AFTER ANALYSES, SAMPLES ARE TO BE: ☐ DISPOSED OF ☐ RETURNED TO CLIENT ☐ STORED (30 DAYS MAX.) ☐ OTHER

SPECIAL INSTRUCTIONS

SAMPLE ID	LOCATION DESCRIPTION	SAMPLING DATE	SAMPLING TIME	SAMPLE TYPE: WATER Comp.	WATER Grab.	AIR Integ.	AIR Grab.	SOLID / SOIL	NO. OF CONTAINERS	TESTS REQUIRED
1	Tank Removal	3-20-90	11 AM					✓	1	8015 & 8020
2	Tank Removal	3-20-90	11 AM					✓	1	8015 & 8020

Relinquished by: (Signature) Fran Frascella

Received by: (Signature)

Date: Time:

Relinquished by: (Signature)

Received by: (Signature)

Date: Time:

Relinquished by: (Signature)

Received for Laboratory by: (Signature) Richard McKelvey

Date: 3-20-90 Time: 17:15

* The report will be forwarded to this address

DISTRIBUTION: White with report, Yellow to [illegible]

SAN BERNARDINO COUNTY - DEHS
HAZARDOUS MATERIALS FIELD SERVICES PROGRAM
UNDERGROUND STORAGE TANK REMOVAL
INSPECTION FORM

Date: 20 Mar 90 Time: 10:00

Facility Name: Fencecraft

Location: 1780 W. Foothill Blvd.

Contractor: Fencecraft

	Quantity	Hauler	Method	Destination	PPM
Triple Rinsate:	100	Caltan Chem	T.T.	Demenno Kerdoon	N/A
Tanks:	1	AMR	T.T.	AMR	N/A
Contaminated soil:					

Manifest #: 9005207 Dry Ice Used (10-15 lb/1000 gal): 40 lbs

	Tank#	Size	Material held	UL#	Appearance (sound, rusty, etc)
1.	1	1950	unleaded	UNK	sound
2.					
3.					
4.					
5.					

	Sample#	Date	Sample description (color/odor)	Location	Depth	Results
1.	#1	20 Mar 90	brown, none	East E.	12'	
2.	#2	20 Mar 90	brown, none	West	12'	
3.						
4.						
5.						

Taken By: Fencecraft Laboratory: Cal Science

Container: glass Refrigeration: yes Headspace: NO

Splits: NO Labels: YES Seals:

Chain of custody: yes EPA Test #s Requested: 8015 + 8020

Gasoline: 8015, 8020, 7420 (Pb); Diesel: 418.1 or 8015

Solvents: 8010; Waste Oil: 418.1 + 7030 (Cd), 7190 (Cr), 7950 (Zn), 7420 (Pb), 7080 (As), 8080 (PCBs)

Inspectors: AQMD: _____

FIRE: _____

OTHER: _____

FORMS COMPLETED:	DATE COMPLETED:
1. Unauthorized Release Form	_____
2. Log Sheet (for site mitigations)	_____
3. Proposition 65 Report	_____
4. "Order to Investigate" Letter	_____
5. Adjustment to APBS	_____
6. SWEEPS (Forms A and B)	_____

SCAQMD REFERENCE # _____

1166 situation reported (describe in detail): _____

_____

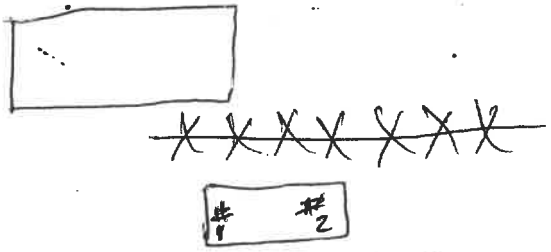
_____

Date	Time	Person Contacted
_____	_____	_____

SCAQMD PHONE NUMBERS

(818) 572-6195 (800) 572-6306

MAP OF FACILITY (indicate where samples were taken)



J Miller
INSPECTOR

20 Mar 90
DATE

DISPOSAL CONTROL SERVICE, INC.

1369 W. 9th STREET, UPLAND, CALIFORNIA 91786
(800) 824-3345 (714) 983-0342

May 8, 1986

TESTED FOR: Fencecraft
1780 W. Foothill Blvd.
Upland, CA.

CONTACT: Pat

TANK SIZE AND PRODUCT: 2,000 Gallons
~~Unleaded Gasoline~~

On site 10:30 A.M. 5-1-86. Began setting up. Ran out of gas while topping off, customer had to get 25 gallons of gas to finish topping off. Had to by pass pump due to a leak at the pump and product line. At 12:40 p.m. began high level testing, at 2:10 p.m. completed high level testing. At 2:25 p.m. began low level testing, at 3:25 p.m. low level testing completed.

A product gain of .047 gallons per hour was detected which is within the ±.050 gallons per hour as established by the NFPA. The testing data indicates the presence of air vapor in the tank, possibly because the tank may be setting at an angle.

Bill R. Lewis
#4148111175

14. Faircock #1 780 Turnpike Lot Upland 5-1-96
Name of Supplier, Owner or Dealer | Address, No. and Street(s) | City | State | Date of Test

15. TANK TO TEST
Identity by position: West Fuel Gas
Brand and Grade: Unleaded 1-Gasol

16. CAPACITY
Nominal Capacity 2000 Gallons
By most accurate capacity chart available 2000 Gallons
Is there doubt as to True Capacity? ☐
See Section "DETERMINING TANK CAPACITY"
From
☐ Station Chart
☐ Tank Manufacturer's Chart
☐ Company Engineering Data
☐ Charts supplied with petro Tite TANK TESTER
☑ Other Veeder-Root

17. FILL-UP FOR TEST
Stick Water Bottom before Fill-up 0 to ⅛ in. — 0 Gallons

	Stick Readings to ⅛ in.	Gallons	Total Gallons ea. Reading
Inventory	Tank		2000
	Water		0
	Fill		6
Product in full tank (up to fill pipe)			2006

Fill up STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY

Tank Diameter

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
See manual sections applicable. Check below and record procedure in log (26).
☐ Water in tank ☐ High water table in tank excavation ☐ Line(s) being tested with LVLLT
API observed gravity 54.4
T-P-I of 77
Corrected API gravity 52.4

VAPOR RECOVERY SYSTEM
☐ Stage I
☐ Stage II

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY
Bottom of tank to Grade* ..... 117 "
Add 30" for 4" L ..... "
Add 24" for 3" L or air seal ..... "
Total tubing to assemble Approximate ..... "

20. EXTENSION HOSE SETTING
Tank top to grade* ..... "
Extend hose on suction tube 6" or more below tank top ..... "

*If Fill pipe extends above grade, use top of fill.

21. TEMPERATURE/VOLUME FACTOR (a) TO TEST THIS TANK
Is Today Warmer? [ ] Colder? [ ] ___° F Product in Tank ___° F Fill-up Product on Truck ___° F Expected Change (+ or −)

22. Thermal-Sensor reading after circulation 16582 digits — 74/73 Nearest °F

23. Digits per °F in range of expected change 323 digits

24. 2006 total quantity in full tank (16 or 17) × .00055964 coefficient of expansion for involved product = 1.1226378 volume change in this tank per °F (.0035) gallons

25. 1.1226378 volume change per °F (24) + ~~330~~ 323 Digits per °F in test Range (23) = .00347565 Volume change per digit. Compute to 4 decimal places. This is test factor (a)

26. LOG OF TEST PROCEDURES			30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO .001 GAL.			34. TEMPERATURE COMPENSATION USE FACTOR (a)			38. NET VOLUME CHANGES EACH READING	39. ACCUMULATED CHANGE
27. DATE / TIME (24 hr.)	28. Record details of setting up and running test. (Use full length of line if needed.)	29. Reading No.	Standpipe Level in Inches: Beginning of Reading	Level to which Restored	32. Product in Graduate: Before Reading	After Reading	Product Replaced (−) / Product Recovered (+)	35. Thermal Sensor Reading	36. Change Higher + Lower − (c)	37. Computation (c) × (a) = Expansion + Contraction −	Temperature Adjustment: Volume Minus Expansion (+) or Contraction (−) #33(V) − #37(T)	At High Level record Total End Deflection / At Low Level compute Change per Hour (NFPA criteria)
10:30	ON SITE began Set up, had to add a nipple to connect to tank											
	pump leaks, had to bypass pump											

100 TOSCA DRIVE
P.O. BOX CS-200
STOUGHTON, MA. 02072-1591
(617) 344-1400

										(.0035)			
12:40	Start 1st low level test	1		43		.800		16 582					
12:55	1st level test cont	2	42.1	43	.800	.805	+.005	585	+3	+.011	-.006		
13:10	" " "	3	43.3	42	.805	.850	+.050	613	+8	+.028	+.022		
13:25	" " "	4	43.8	42	.855	.925	+.070	619	+16	+.056	+.014		
13:40	" " "	5	43.5	43	.925	.980	+.055	635	+16	+.056	-.001		
13:55	" " "	6	43.9	42	.790	.870	+.080	665	+30	+.105	-.025		
14:10	end 1st level test	7	43.7	43	.870	.950	+.080	685	+20	+.070	+.010		
14:25	start low level test		13.5	13	.330	.390	+.060	709	+24	+.084	-.024	-.024	
14:40	cont low level test		13.6	12	.390	.450	+.060	717	+8	+.028	+.032	+.008	
14:55	" " "		14.0	12	.450	.550	+.100	750	+33	+.120	-.020	-.012	
15:10	" " "		13.7	12	.550	.630	+.080	756	+6	+.021	+.059	+.047	
15:25	end low level test		13.4	12	.630	.690	+.060	772	+16	+.056	+.004		

$\pm .047$ l/hr
with $\pm .05$-09 l/hr NFPA

UGST PERMIT(S) CANNOT BE PROCESSED WITHOUT A COMPLETED APPLICATION FOR EACH TANK.

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

Department of Environmental Health Services
Hazardous Waste & Toxics Control
385 N. Arrowhead Avenue
San Bernardino, CA 92415-0160

STATE ID NUMBER

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

( ) 01 NEW PERMIT ( ) 02 CONDITIONAL PERMIT (XX) 05 RENEWED PERMIT ( ) 06 AMENDED PERMIT ( ) 07 TANK CLOSED ( ) 08 MINOR CHANGE (NO SURCHARGE) ( ) 09 DELETE FROM FILE (NO FEE)

I OWNER

NAME(CORPORATION, INDIVIDUAL OR PUBLIC AGENCY)		PUBLIC AGENCY ONLY	
FenceCraft of Upland, Inc.		( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL	
STREET ADDRESS	CITY	STATE	ZIP
1780 W. Foothill Blvd.	Upland	CA	91786

II FACILITY

FACILITY NAME		DEALER/FOREMAN/SUPERVISOR		
Fence Craft of Upland, Inc.		Patrick W. Keeney		
STREET ADDRESS		NEAREST CROSS STREET		
1780 W. Foothill Blvd.		Central Ave.		
CITY		COUNTY		ZIP
Upland		SAN BERNARDINO		91786
MAILING ADDRESS	CITY		STATE	ZIP
1780 W. Foothill Blvd.	Upland		CA	91786
PHONE W/AREA CODE	TYPE OF BUSINESS			
(714) 981-7095	( ) 01 GASOLINE STATION (XX) 02 OTHER			
NUMBER OF CONTAINERS	RURAL AREAS ONLY : TOWNSHIP	RANGE	SECTION	
ONE				

III 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE	NIGHTS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE
Mr. Spears, James (714) 981-7095	Mr. Spears, James (714)985-1327

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION

A. (X) 01 TANK ( ) 04 OTHER:	CONTAINER NUMBER 7638-84 SFS
B. MANUFACTURER (IF APPROPRIATE): Hanson	YEAR MFG: '74 C. YEAR INSTALLED (X) UNKNOWN
D. CONTAINER CAPACITY: 2000 GALLONS (X) UNKNOWN	E. DOES THE CONTAINER STORE: ( ) 01 WASTE (XX) 02 PRODUCT
F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (XX) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES): (XX) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL ( ) 05 WASTE OIL ( ) 06 OTHER	

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (X) UNKNOWN

B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) (X) 02 NON-VAULTED ( ) 03 UNKNOWN

C. ( ) 01 DOUBLE WALLED (X) 02 SINGLE WALLED ( ) 03 LINED

D. ( ) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE ( ) 06 ALUMINUM (X) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC ( ) 12 UNKNOWN ( ) 13 OTHER:

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
(X) 07 UNLINED ( ) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING ( ) 03 CATHODIC PROTECTION ( ) 04 UNKNOWN ( ) 05 NONE
(X) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN (X) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE (X) 05 SUCTION ( ) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

(X) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST ( ) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-F YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CASS (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (X) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)	PHONE W/AREA CODE
James H Spears	(714) 981-7095

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY	CITY CODE	COUNTY CODE
CONTACT PERSON	PHONE W/AREA CODE	

DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

INSPECTION REQUEST: (714) 981-1197
INSPECTORS: (714) 982-1352 Ext. 210 or 205
8:00-9:00 a.m. & 4:30-5:00 p.m.
TELECOMMUNICATIONS FOR THE DEAF

JOB ADDRESS 1770 W. Foothill

CITY OF UPLAND DEPARTMENT OF BUILDING & SAFETY
460 N. EUCLID AVE., P.O. BOX 460
UPLAND, CALIFORNIA 91785
TELEPHONE (714) 982-1352

DATE: 7-28-88

LOT ____ BLK ____ TRACT ____ PERMIT NO. 22302

FOR OFFICE USE ONLY

SP # | CUP # | AD # | VAR #

YARDS | FRONT | L. SIDE | R. SIDE | REAR

USE ZONE | TYPE CONST. | # PKG. SP.

SEWER LOC. | FRONT ☐ | REAR ☐

SPECIAL CONDITIONS

BUILDING

OCC. GROUP— SQ. FT.	VALUATION
	$
	$
TOTAL VALUATION	$

FEES

PLAN CHECK	
WATER ADDITIVE	
PARK ACQ. & DEV	
STORM DRAIN DEV	
STREET & TRAFFIC FAC. DEV	
SAN SEWER FAC. EXP.	
UPL. UNIFIED SCH. DIST.	
@ PER SQ. FT.	
☐ DEFERRED	
BLDG. PERMIT FEE	
TOTAL BLDG. FEES	$

PLUMBING

BATHTUBS		DISHWASHER/DISP.	
SHOWERS		CLOTHES WASHER	
WATER CLOSETS		DRINK FOUNTAINS	
LAVATORIES		URINALS	
SINKS		INTERCEPTORS	
WATERHEATERS			

TOTAL FIXTURES @ $	
PIPING WATER ☐ GAS ☐	
SWIMMING POOL PLUMBING	
SWIMMING POOL HEATING	
LAWN SPRINKLER SYSTEM	
PERMIT FEE	
TOTAL PLUMBING FEES	$

ELECTRICAL

OCC. GROUP	SQ. FT.	RATE	
	hookup trailer		1.50
SERVICE	100	AMPS @ ¢	1-
PERMIT FEE			5-
TOTAL ELECT. FEES			$ 7.50

SEWER

PRIVATE	
PUBLIC	
BACKFLOW REQ. ☐	
PERMIT FEE	
TOTAL SEWER FEES	$

MECHANICAL

HEATING	
AIR COND.	
PERMIT FEE	
TOTAL MECH. FEES	$

TOTAL ALL FEES (PAY THIS AMOUNT) $ 7.50

FOR APPLICANT (Print or Type)

OWNER (NAME) Intravia Rock & Sand (PHONE)
(ADDRESS)

ARCH. ENGR. (NAME) (LIC. #)
(ADDRESS) (PHONE)

CONTR. (NAME) Dean Young LIC. # 394240 CLASS C-8
(ADDRESS) PO Box 771 R.C. 91730 (PHONE) 9872940

DESCRIPTION OF WORK Elect.

SIZE SQ. FT.	NO. STORIES	NO. DWG. UNITS	
LOT SIZE	NO. EXIST. BLDGS.	PERCENT COVER	

NEW ☐ ADD ☐ ALTER ☐ REPAIR ☐ CONVERT ☐

LICENSED CONTRACTOR'S DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason: *(Sec. 7031.5, Business and Professions Codes: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law, Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom, and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit, subjects the applicant to a civil penalty of not more than five hundred dollars ($500).*

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale. *Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)*

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project. *(Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.)*

☐ I am exempt under Sec. ____, B. & P.C. for this reason ____

Date ____ Owner ____

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof. *(Sec. 3800, Labor Code.)*

Policy No. ____ Company ____

☐ Copy is filed with the city. ☐ Certified copy is hereby furnished Exp. Date ____

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

NOTICE TO APPLICANT. If, after making this Certificate of Exemption you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. *(Sec. 3097, Civil Code.)*

Lender's Name ____

Lender's Address ____

I certify that I have read this application and state that the above information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection purposes.

Signature of Applicant Dean Young Date 7-28-88

Mailing Address ____

City, State, Zip ____

VALIDATION

When properly validated in this space this form constitutes a permit to do the work described herein. This permit will expire if work is not started within 180 days, or if work is abandoned for more than 180 days.

INSPECTOR COPY

INSPECTION RECORD

TYPE OF INSPECTION	DATE	INSPECTOR	REMARKS
SETBACKS—FOOTINGS			
U. GROUND ELECT.			
U. GROUND PLUMBING			
U. GROUND MECH.			
SEWER			
SLAB GRADE			
GAS TEST			
RO. ELECT.			
RO. PLUMBING			
RO. MECH.			
ROOF SHTG.			
SHEAR PANELS			
STRUCT. STEEL			
CONNECTIONS			
RO. FRMG.			
INSULATION			
FIREPLACE			
FOOTING			
THROAT			
BOND BEAM			
MASONRY			
FOOTINGS			
GROUT			
BOND BEAM			
LATHING—EXT.			
—INT./D.W.			
FINAL INSPECTIONS			
PLBG.			
ELECT.	7-29-88	B. T.	
MECH.			
BLDG.			
SWIM POOLS—DO NOT PLASTER POOL UNTIL ALL OF THE FOLLOWING ARE SIGNED			
STEEL/BOND			
U. GRND. PLBG.			
U. GRND. ELECT.			
FENCE & GATE			
GAS TEST			
EQUIP. LOC.			
UTILITY RELEASE			
ELECT.	7/29/88	BS	
GAS			

SEWER LOCATION (SHOW NORTH ARROW)

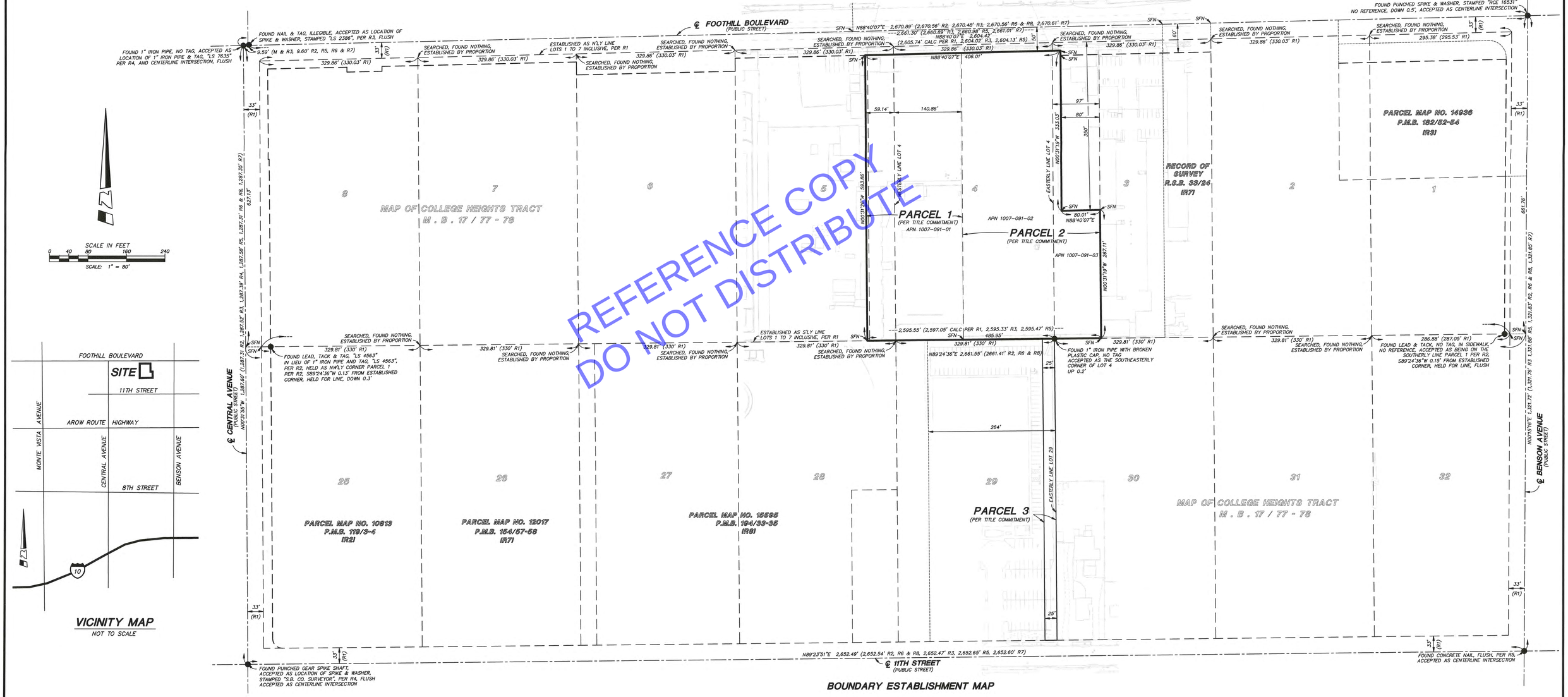
TYPE MATERIAL

INSPECTION _____ DATE _____

I certify that in the performance of the work for which this permit is issued I shall not employ any person in any manner so as to become subject to the workmen's compensation laws of California.

I am aware that if, during the performance of this work, become subject to said workmen's compensation laws my permit for this work shall be deemed revoked until such time as I comply with Section 3700 of the California Labor Code

Signature Dean T. Yeary Date 7-28-88



BOUNDARY ESTABLISHMENT MAP

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF UPLAND, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1:
THE EASTERLY 59.14 FEET OF LOT 5 AND THE WESTERLY 140.86 FEET OF LOT 4, COLLEGE HEIGHTS TRACT, IN THE CITY OF UPLAND, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AS PER PLAT RECORDED IN BOOK 17 OF MAPS, PAGE 77 RECORDS OF SAID COUNTY.

EXCEPTING THEREFROM THAT PORTION LYING WITHIN MESA AVENUE OR FOOTHILL BOULEVARD, NOW 100 FEET WIDE.

PARCEL 2:
LOT 4 AND THE WESTERLY 97 FEET OF LOT 3, COLLEGE HEIGHTS TRACT, IN THE CITY OF UPLAND, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AS PER PLAT RECORDED IN BOOK 17 OF MAPS, PAGE 77, RECORDS OF SAID COUNTY;

EXCEPTING THEREFROM THE WESTERLY 140.86 FEET OF SAID LOT 4.

ALSO EXCEPTING THAT PORTION WITHIN MESA OR FOOTHILL BLVD., NOW 100 FEET WIDE;

ALSO EXCEPTING THE NORTH 350 FEET OF THE EAST 80 FEET OF THE WEST 97 FEET OF SAID LOT 3.

PARCEL 3:
EASEMENTS FOR SEWER AND STORM DRAIN PURPOSES AS CREATED BY DOCUMENT ENTITLED "GRANT OF EASEMENT", RECORDED DECEMBER 28, 2007 AS INSTRUMENT NO. 2007-0717154 OF OFFICIAL RECORDS.

SURVEY NOTES

1. BASIS OF BEARINGS: BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN O.C.S. HORIZONTAL CONTROL STATION GPS NO. EWPP AND STATION GPS NO. LORS BEING NORTH 81°29'26"WEST
2. ASSESSOR'S PARCEL NO. = 1007-091-01, 1007-091-02 AND 1007-091-03 (ASSESSOR'S PARCEL NUMBERS SHOWN HEREON ARE PER THE CURRENT TAX ASSESSOR'S ROLLS AS PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY.
3. DATE OF FIELD SURVEY: OCTOBER 23, 2019
4. LANDSCAPED AREAS MAY CONTAIN IRRIGATION SPRINKLER SYSTEMS.

SPECIAL NOTE

1. THE BUILDING AT 1780 FOOTHILL BOULEVARD ENCROACHES INTO EASEMENT ITEMS 14 AND 15.

(ITEM NOTED ABOVE REPRESENT A SPECIFIC ISSUES THE SURVEYOR WANTS TO BRING TO THE ATTENTION OF ALL PARTIES USING THIS SURVEY. ADDITIONAL ISSUES OF CONCERN NOT NOTED ABOVE BUT SHOWN ON THE SURVEY MAY EXIST.)

TITLE REPORT INFORMATION

ITEM NUMBERS AND LEGAL DESCRIPTION SHOWN HEREON CORRESPOND TO FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT FOR TITLE INSURANCE NO. NCS-979273-LA2, DATED OCTOBER 31, 2019, REVISION NO. 2.

NO RESPONSIBILITY FOR COMPLETENESS, ACCURACY OR CONTENT OF SAID COMMITMENT IS ASSUMED BY THIS MAP.

ITEM NUMBERS INDICATED WITH A HEXAGON (⬡) REFLECT ITEMS WHICH ARE PLOTTED HEREON:

1-6 STANDARD TITLE COMPANY NOTE.
7-7b TAXES.
8 THE LIEN OF SUPPLEMENTAL TAXES, IF ANY.
9 THIS ITEM HAS BEEN INTENTIONALLY DELETED.
10 THIS ITEM HAS BEEN INTENTIONALLY DELETED.
11 AN EASEMENT FOR PIPE LINE PURPOSES RECORDED SEPTEMBER 27, 1899 IN BOOK 273, PAGE 129, OF DEEDS (NOT LOCATABLE FROM RECORD).
12 AN EASEMENT FOR PIPE LINE PURPOSES IN FAVOR OF THE POMONA LAND AND WATER COMPANY RECORDED JULY 12, 1907 IN BOOK 395, PAGE 282, OF DEEDS (CONTAINS A RESERVATION FOR WATER PIPELINES. NOT LOCATABLE FROM RECORD).
13 THIS ITEM HAS BEEN INTENTIONALLY DELETED.
⬡14 AN EASEMENT FOR PUBLIC UTILITY PURPOSES IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, RECORDED MAY 19, 1965 AS INSTRUMENT NO. 523 IN BOOK 6394, PAGE 102, OFFICIAL RECORDS.
⬡15 AN EASEMENT FOR PUBLIC UTILITY PURPOSES IN FAVOR OF THE GENERAL TELEPHONE COMPANY OF CALIFORNIA, RECORDED OCTOBER 7, 1965 AS INSTRUMENT NO. 697 IN BOOK 6488, PAGE 84, OFFICIAL RECORDS.
16 THE FACT THAT THE LAND LIES WITHIN THE BOUNDARIES OF THE REDEVELOPMENT PROJECT AREA NO. III, AS DISCLOSED BY THE DOCUMENT RECORDED DECEMBER 3, 2007 AS INSTRUMENT NO. 2007-0676980, OFFICIAL RECORDS (NOT A MATTER OF SURVEY).
17-18 A DEED OF TRUST.
19-20 A FINANCING STATEMENT.
21 A DEED OF TRUST.
22 A FINANCING STATEMENT.
23 STANDARD TITLE COMPANY NOTE.
24 ANY CLAIM THAT THE TITLE IS SUBJECT TO A TRUST OR LIEN CREATED UNDER THE PERISHABLE AGRICULTURAL COMMODITIES ACT, 1930 OR THE PACKERS AND STOCKYARDS ACT OR UNDER SIMILAR STATE LAWS.
25 WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT SHOWN BY THE PUBLIC RECORDS.
26 RIGHTS OF PARTIES IN POSSESSION.
27 MATTERS DISCLOSED BY AN ALTA/NSPS SURVEY MADE BY HUITT-ZOLLARS ON OCTOBER 29, 2019, DESIGNATED JOB NO. R311672.01.

TABLE A NOTES

ITEM NUMBERS BELOW CORRESPOND TO REQUESTED 2016 ALTA/NSPS LAND TITLE SURVEY TABLE A: OPTIONAL SURVEY RESPONSIBILITIES AND SPECIFICATIONS.

2. SITE ADDRESS: 1780 AND 1750 WEST FOOTHILL, BOULEVARD, UPLAND, CALIFORNIA (AS LISTED IN THE COMMITMENT FOR TITLE INSURANCE BY FIRST AMERICAN TITLE INSURANCE COMPANY)
3. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN FLOOD ZONE X. FLOOR ZONE X IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN" ON FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM (FLOOD INSURANCE RATE MAP) MAP NO. 06071C8606H, NO PRINTED 8/28/2008.
4. THE PROPERTY DESCRIBED AND SHOWN HEREON CONTAINS 6.049 ACRES, MORE OR LESS.
5 AERIAL PHOTOGRAPHY WAS COMPILED BY ROBERT J. LUNG & ASSOCIATES, DATED OCTOBER 4, 2019 AND COMPLIES WITH NATIONAL MAPPING ACCURACY STANDARDS.

BENCH MARK: SAN BERNARDINO COUNTY BENCH MARK NO. 7-33
LOCATION: NORTHWEST CORNER OF AIRPORT DRIVE AND FOOTHILL BOULEVARD. 26.5 FEET WEST OF AIRPORT, 83 FEET NORTH OF FOOTHILL, 240 FEET WEST OF CENTRAL AVENUE. 1 FOOT FROM EAST END IN FRONT OF LIGHT STAND.
ELEVATION: 1346.978

6. TABLE A ITEM 6(a) WAS REQUESTED BY THE CLIENT AND PER THE MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS" ZONING INFORMATION IS TO BE "PROVIDED TO THE SURVEYOR BY THE CLIENT" IN A ZONING REPORT OR LETTER.

ZONING INFORMATION WAS REQUESTED FROM THE CLIENT AND WAS NOT PROVIDED, THEREFORE TABLE A, ITEM 6(a) HAS BEEN REMOVED FROM THE SURVEYOR'S CERTIFICATE.

ZONING INFORMATION SHOWN WAS OBTAINED FROM THE CITY OF UPLAND PLANNING DEPARTMENT WEBSITE:

ZONING INFORMATION: C/I-MU COMMERCIAL/INDUSTRIAL MIXED-USE

7. BUILDING DIMENSIONS AND SQUARE FOOTAGES SHOWN HEREON ARE BASED ON MEASUREMENTS AROUND THE EXTERIOR FOOTPRINT OF THE BUILDING AT GROUND LEVEL, AND DO NOT REPRESENT USEABLE FLOOR AREA.
8. SEE SHEET 2 FOR ALL OBSERVED SUBSTANTIAL ONSITE SURFACE FEATURES.
9. NO STRIPING EXISTS AND NO COUNT FOR SAID PARKING IS SHOWN HEREON.
10. THERE ARE NO DIVISION OR PARTY WALLS WITH RESPECT TO ADJOINING PROPERTIES.
11. UTILITIES SHOWN HEREON ARE FROM OBSERVED EVIDENCE ONLY; UNDERGROUND UTILITIES WERE NOT LOCATED AND UNDERGROUND UTILITY MARKINGS WERE NOT PERFORMED.
13. ADJOINING OWNER INFORMATION PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY.

TABLE A NOTES

14. SEE BOUNDARY ESTABLISHMENT MAP FOR NEAREST INTERSECTING STREET.
16. THERE IS NO EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
18. THERE ARE NO DELINEATION MARKERS OF WETLANDS OBSERVED ON THE SUBJECT PROPERTY.
19. THERE IS AN OFFSITE APPURTENANT EASEMENT LISTED IN THE TITLE COMMITMENT AND IS SHOWN AS PARCEL 3 OF THE LEGAL DESCRIPTION.
20. HUITT-ZOLLARS IS FULLY INSURED REGARDING PROFESSIONAL LIABILITY AND CERTIFICATES OF INSURANCE ARE AVAILABLE UPON REQUEST.

REFERENCES

R1 MAP OF COLLEGE HEIGHTS TRACT, M.B. 17/77-78
R2 PARCEL MAP NO. 10813, P.M.B. 119/3-4
R3 PARCEL MAP NO. 14936, P.M.B. 182/52-54
R4 PARCEL MAP NO. 17943, P.M.B. 216/46-49
R5 RECORD OF SURVEY, R.S.B. 143/24
R6 PARCEL MAP NO. 12017, P.M.B. 154/57-58
R7 RECORD OF SURVEY, R.S.B. 33/24
R8 PARCEL MAP NO. 15595, P.M.B. 194/33-35

MONUMENT NOTES

● FOUND MONUMENT AS NOTED

LEGEND

SFN SEARCHED FOUND NOTHING

SURVEYOR'S CERTIFICATE

TO: OAKMONT INDUSTRIAL GROUP; FOOTHILL BOULEVARD INDUSTRIAL OWNER, L.P., A DELAWARE LIMITED PARTNERSHIP; AND FIRST AMERICAN TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(a), 7(b)(1), 7(c), 8, 9, 10, 11, 13, 14, 16, 18, 19 AND 20 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON OCTOBER 23, 2019.

RUSSELL H. HANSON, L.S. 8873
EXPIRATION DATE: DECEMBER 31, 2019

DATE OF CERTIFICATION: OCTOBER 29, 2019

DATE OF REVISION: NOVEMBER 18, 2019
– REVISED TO REFLECT CURRENT TITLE COMMITMENT

RUSSELL H. HANSON NO. 8873 PROFESSIONAL LAND SURVEYOR STATE OF CALIFORNIA

A.L.T.A./N.S.P.S. LAND TITLE SURVEY FOR

OAKMONT INDUSTRIAL GROUP

3520 PIEDMONT ROAD SUITE 100
ATLANTA, GA 30305

FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT FOR TITLE INSURANCE NO. NCS-979273-LA2, DATED OCTOBER 31, 2019, REVISION NO. 2.

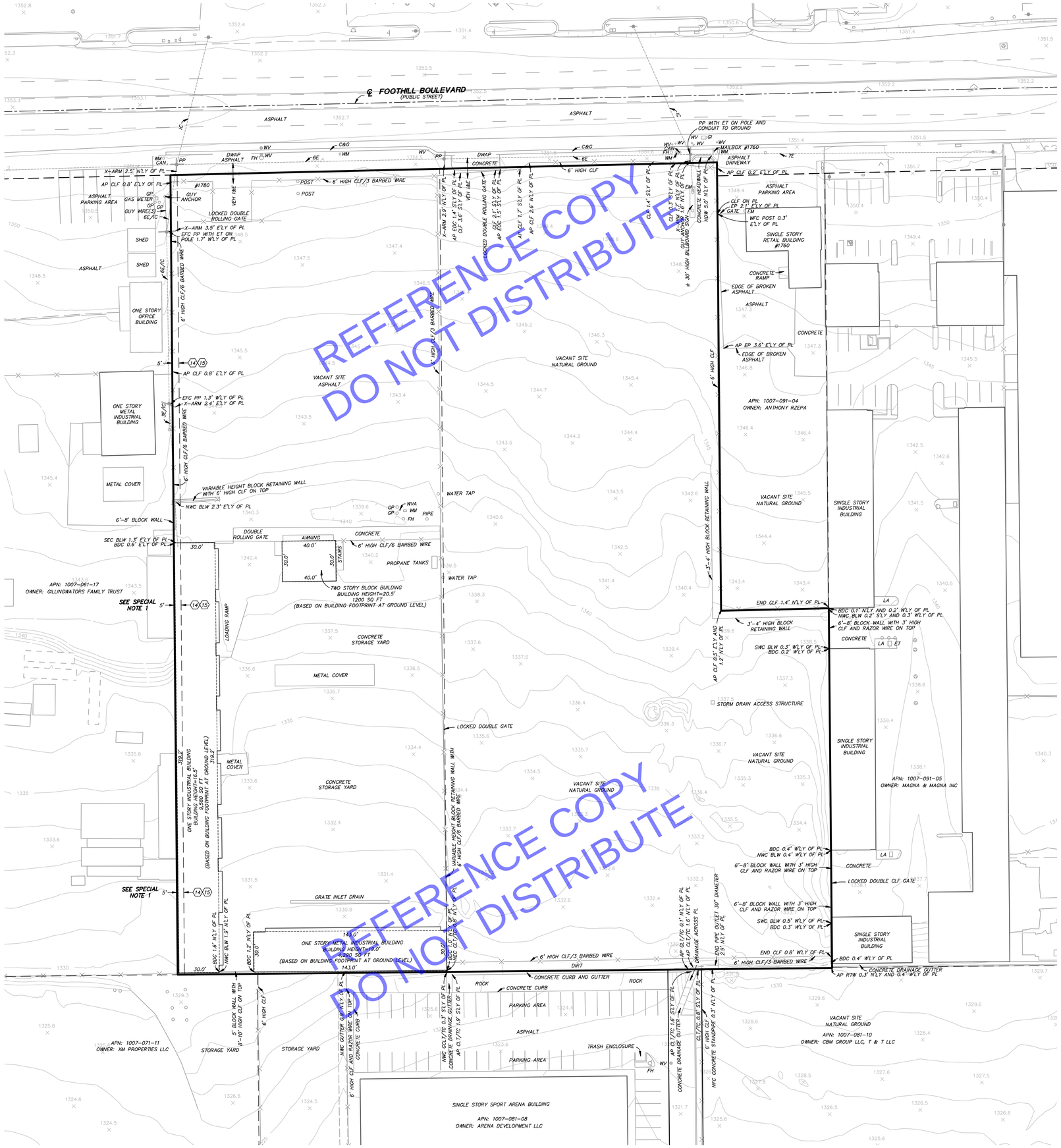
HUITT-ZOLLARS
Huitt-Zollars, Inc. Irvine
2603 Main Street, Suite 400, Irvine, California 92614
Phone (949) 988-5815 Fax (949) 988-5820
rhanson@huitt-zollars.com

QUALITY CONTROL REVIEW
JEFFREY J. LENNERR NO. 9305 PROFESSIONAL LAND SURVEYOR STATE OF CALIFORNIA
L.S. 9305 EXPIRES: 9/30/2020
DATE: 10/29/2019

SHEET 1 OF 2 SHEETS
DRAWN BY PMP
JOB NO. R311672.01

OAKMONT INDUSTRIAL GROUP / 1780 FOOTHILL BOULEVARD, UPLAND / ALTA

Q:\R311672.01\CADD & BIM\MAPPING\DWG\AL\31167201JAL01.DWG



REFERENCE COPY
DO NOT DISTRIBUTE

LEGEND

AP	ANGLE POINT
APN	ASSESSOR'S PARCEL NUMBER
BDC	BUILDING CORNER
BLW	BLOCK WALL
CAN	CANISTER
C&G	CONCRETE CURB AND GUTTER
CLF	CHAIN LINK FENCE
CLT	CHANNEL LINING TOP
DWAP	DRIVEWAY APRON
E'LY	EASTERLY
EDC	EDGE OF CONCRETE
EM	ELECTRIC METER
EP	EDGE OF ASPHALT PAVEMENT
ET	ELECTRICAL TRANSFORMER
FH	FIRE HYDRANT
GI	GRATE INLET
GP	GUARD POST
HDW	CONCRETE HEAD WALL
LA	LANDSCAPE AREA
N'LY	NORTHERLY
NEC	NORTHEAST CORNER
NWC	NORTHWEST CORNER
PL	PROPERTY LINE
PP	POWER POLE
RTW	RETAINING WALL
S'LY	SOUTHERLY
SEC	SOUTHEAST CORNER
SWC	SOUTHWEST CORNER
TC	TOP OF CURB
VEH I&E	VEHICULAR INGRESS AND EGRESS
X-ARM	CROSS-ARMS
WFC	WEST FACE
W'LY	WESTERLY
WM	WATER METER
WV	WATER VALVE
WVA	WATER VALVE ASSEMBLY

OVERHEAD WIRES

6E	OVERHEAD ELECTRICAL WIRES
1C	OVERHEAD COMMUNICATION WIRES

SEE SHEET 1 FOR LEGAL DESCRIPTION, TITLE REPORT INFORMATION, BASIS OF BEARINGS, BOUNDARY ESTABLISHMENT MAP, MONUMENT NOTES AND SURVEYOR'S CERTIFICATE.

SHEET 2 OF 2 SHEETS

JOB NO R311672.01

OAKMONT INDUSTRIAL GROUP / 1780 FOOTHILL BOULEVARD, UPLAND / ALTA

O: \R311672.01\CADD & BIM\MAPPING\DWG\AL\31167201JAL01.DWG

FW: [EXT] New Carlyle/Oakmont Industrial Project in Upland, CA -- Enviro DD

From: Austin Hill (AHill@lee-assoc.com)

To: mspears1014@yahoo.com; candbees@yahoo.com

Cc: TPlata@lee-assoc.com

Date: Monday, October 14, 2019, 12:53 PM PDT

Ron and Michele,

Please see attached and below for initial findings from Oakmont's phase 1. Do you guys have any documentation on the 10K tank or the auto repair facilities? I know this happened well before you bought it but wanted to see if anything was passed along to you. I don't believe it was as you've already given us everything you have but wanted to just do one more check before Oakmont pulls the trigger on a Phase 2.

The good news is the documentation you supplied on the 2K tank was acknowledged and is in good standing but if we don't have anything to supply for these other two items there's a good chance that Oakmont will be forced into doing a phase 2. Let us know as soon as possible if you do have anything else so that Oakmont can get going on the Phase 2 ASAP. Also, please confirm that we can supply access and you have no problem with them doing some minor boring to confirm the property is clean (they do put the property back in clean condition).

Thank you!

Austin Hill

Senior Vice President / Principal

Lee & Associates | Ontario

D 909.373.2732

C 562.754.8470

ahill@lee-assoc.com

Corporate ID 00976995 | License ID 01921364

3535 Inland Empire Blvd.

Ontario, CA. 91764

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From: John Atwell <jatwell@oakmontre.com>
Sent: Monday, October 14, 2019 12:37 PM
To: Austin Hill <AHill@lee-assoc.com>; Tyler Plata <TPlata@lee-assoc.com>
Subject: FW: [EXT] New Carlyle/Oakmont Industrial Project in Upland, CA -- Enviro DD

SEE BELOW

From: Charles, Susan <Susan.Charles@troutman.com>
Sent: Monday, October 14, 2019 12:27 PM
To: Leo Krusius <Leo.Krusius@carlyle.com>
Cc: John Atwell <jatwell@oakmontre.com>; Greg Posel <gposel@oakmontre.com>; Wake Hamilton <Wake.Hamilton@carlyle.com>; Charles, Susan <Susan.Charles@troutman.com>
Subject: RE: [EXT] New Carlyle/Oakmont Industrial Project in Upland, CA -- Enviro DD

Leo –

Apex's initial findings for the Upland CA property are attached. There are two RECs:

- Former onsite USTs - A 10,000-gallon steel diesel tank; installed in 1977 at 1780 Foothill Boulevard; reportedly removed, but removal documentation not provided for review as of yet. In 1990, a 2,000-gallon gasoline UST was removed from 1780 Foothill Boulevard in 1990. The Environmental Public Works Agency indicated that a review of laboratory analysis showed that contamination in soils was below action levels, and no further investigation was warranted at that time. It should be noted that many of the record copies were very poor and could not be deciphered, so the concentrations of BTEX are not known.
- North adjoining and upgradient auto repair facilities - The north adjoining properties at 1775 and 1785 Foothill Boulevard have been used as auto repair facilities from at least 1971 through the present, which involved the use of petroleum products and solvents.

Does your seller have any removal information for the 10,000-gallon UST? Apex has requested information from the regulators but we don't have anything yet. Depending on what data are available, we may be able to get rid of that finding. For the second UST (2,000-gallon gasoline) I'll try to see if there's enough information to determine this is a Business Environmental Risk rather than a REC. The north adjoining property would be a groundwater/vapor intrusion risk and shouldn't create any sort of cleanup liability for the target property. If contamination has migrated beneath the site, assuming no potable water wells will be used on-site, the worst case would be a vapor mitigation system.

I suspect we're going to need a Phase II to get one or all of these items resolved. Does your contract contemplate any subsurface access as part of DD?

Sue

Sue Charles
troutman **sanders**
Direct: 312.759.5931
susan.charles@troutman.com

EXTERNAL SENDER

Here is a summary of our preliminary findings so far:

Current REC findings:

- Former onsite USTs - A 10,000-gallon steel diesel tank; installed in 1977 at 1780 Foothill Boulevard; reportedly removed, but removal documentation not provided for review as of yet. In 1990, a 2,000-gallon gasoline UST was removed from 1780 Foothill Boulevard in 1990. The Environmental Public Works Agency indicated

that a review of laboratory analysis showed that contamination in soils was below action levels, and no further investigation was warranted at that time. It should be noted that many of the record copies were very poor and could not be deciphered, so the concentrations of BTEX are not known.

- North adjoining and upgradient auto repair facilities - The north adjoining properties at 1775 and 1785 Foothill Boulevard have been used as auto repair facilities from at least 1971 through the present, which involved the use of petroleum products and solvents.

Current de minimis findings:

- Apex observed approximately 100 55-gallon drums on the western and eastern sides of the subject property. The drums were either empty or contained citric concentrate/honey. According to Mr. Spears, none of the drums contain any petroleum products or hazardous materials. No secondary containment was observed. Concrete staining was observed in the vicinity of all of the drum storage. This staining is considered a *de minimis condition* to the subject property.
- East adjoining and cross-gradient former UST - The east adjoining property at 1784 Foothill Boulevard formerly contained a 2,000-gallon steel gasoline UST; single-walled; installed in 1980 and reportedly removed; no impacts noted.

Let me know if you have any questions. Thanks!

MKO

Matthew Otto
National Program Manager
300 S Wacker Dr, Ste 630
Chicago, IL 60606
O) 847-956-8589 x3205 M) 224-387-6008
Add me to your contact list!

ENR Top 30 All-Environmental Firm

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Untitled

GEOTECHNICAL INVESTIGATION
PROPOSED WAREHOUSE

1780 West Foothill Boulevard
Upland, California
for
Oakmont Industrial Group

SoCalGeo

SOUTHERN
CALIFORNIA
GEOTECHNICAL
A California Corporation

October 23, 2019

SOUTHERN CALIFORNIA GEOTECHNICAL

Oakmont Industrial Group
3520 Piedmont Road, Suite 100
Atlanta, Georgia 30305

Attention: Mr. John C. Atwell
Senior Vice President

Project No.: **19G216-1**

Subject: **Geotechnical Investigation**
Proposed Warehouse
1780 West Foothill Boulevard
Upland, California

Gentlemen:

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

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

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Pablo Montes Jr.
Staff Engineer

Robert G. Trazo, GE 2655
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
ROBERT TRAZO
No. 2655
GEOTECHNICAL
STATE OF CALIFORNIA

Distribution: (1) Addressee

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APPENDICES

A Plate 1: Site Location Map
Plate 2: Boring and Trench Location Plan
B Boring and Trench Logs
C Laboratory Test Results
D Grading Guide Specifications
E Seismic Design Parameters

1.0 EXECUTIVE SUMMARY

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

Site Preparation Recommendations

- Demolition of the existing developments, including foundations, floor slabs, pavements, concrete flatwork, septic tanks and any subsurface improvements which will not be utilized as part of the new development, will be required. Debris resulting from demolition activities should be disposed of off-site in accordance with local regulations. Alternatively, concrete and asphalt debris may be crushed to a maximum 2-inch particle size, mixed with the on-site soils, and reused as compacted structural fill.
- Initial site preparation should also include stripping of the existing vegetation which consists of some areas of sparse native grass and weeds throughout the site. These materials should be properly disposed of off-site.
- The subsurface conditions encountered at the boring and locations generally consist of a surficial layer of fill soils underlain by native alluvium. The fill soils extend to depths of 1½ to 5± feet at the boring and trench locations. No documentation regarding the placement or compaction of the fill soils is available, and they are therefore considered to represent undocumented fill. These soils are not considered suitable to support the foundation loads of the new structure.
- Remedial grading is recommended within the proposed building area in order to remove the existing undocumented fill soils, which extend to depths of 1½ to 5± feet at the boring and trench locations, in their entirety. It is also recommended that the proposed building pad area be overexcavated to a depth of at least 3 feet below existing grade and to a depth of at least 3 feet below proposed pad grade, whichever is deeper. Overexcavation within the new foundation areas is recommended to extend to a depth of at least 3 feet below proposed foundation bearing grade.
- After overexcavation has been completed, the resulting subgrade soils should be evaluated by the geotechnical engineer to identify any additional soils that should be overexcavated. The resulting soils should be scarified and thoroughly flooded to achieve a moisture content of 0 to 4 percent above optimum moisture, to a depth of at least 12 inches. The overexcavation subgrade soils should then be recompacted under the observation of the geotechnical engineer. The previously excavated soils may then be replaced as compacted structural fill.
- The new pavement and flatwork subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.
- The near-surface soils, especially those present below the exiting fill materials, contain significant amounts of oversized materials, including cobbles and boulders. Where grading will require excavation into these materials, consideration should be given to using selective grading techniques to remove the cobbles and/or boulders from these soils prior to reuse as fill.

Building Foundation Recommendations

- Spread footing foundations, supported in newly placed structural fill soils.
- Maximum, net allowable soil bearing pressure: 3,000 lbs/ft^2.
- Reinforcement consisting of at least two (2) No. 5 rebars (1 top and 1 bottom) in strip footings. Additional reinforcement may be necessary for structural considerations.

Building Floor Slab Recommendations

- Conventional Slab on Grade, at least 6 inches thick
- Modulus of Subgrade Reaction: k = 150 psi/in
- Reinforcement is not considered to be necessary for geotechnical considerations.
- The actual thickness and reinforcement of the floor slab should be determined by the structural engineer

Pavements

ASPHALT PAVEMENTS (R = 60)					
Materials	**Thickness (inches)**				
	Parking Stalls (TI = 4.0)	Auto Drive Lanes (TI = 5.0)	Truck Traffic		
			(TI = 6.0)	(TI = 7.0)	(TI = 8.0)
Asphalt Concrete	3	3	3½	4	5
Aggregate Base	3	3	3	3	3
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 60)				
Materials	**Thickness (inches)**			
	Automobile Parking and Drive Areas (TI=4.0 & 5.0)	Truck Traffic		
		(TI =6.0)	(TI =7.0)	(TI =8.0)
PCC	5	5	6	7
Compacted Subgrade (95% minimum compaction)	12	12	12	12

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Proposal No. 19P373, dated September 27, 2019. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slab, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The subject site is located on the south side of West Foothill Boulevard, 950± feet west of the intersection of West Foothill Boulevard and North Benson Avenue in Upland, California. The site is referenced by the street address 1780 West Foothill Boulevard. The site is bounded to the north by West Foothill Boulevard, to the east by automotive repair shops/buildings, to the south by an industrial building, and to the west by a truck/trailer storage yard.

The subject site consists of several parcels which total 6.06± acres in size. The southwestern parcel is presently developed with eight (8) buildings. Six (6) of the buildings are located along the western property line and share common walls. These buildings range from 1,200 to 2,400± ft² in size. One building is located along the southern property line and is approximately 4,400 ft² in size. The last building is located in the northern portion of the southwest parcel and is approximately 1,200 ft² in size. A metal canopy is located in the central area of the southwest parcel. The buildings are assumed to be of concrete tilt-up construction, supported on conventional shallow foundations with concrete slab-on-grade floors. The ground surface cover surrounding the buildings consists of Portland cement concrete pavements. The ground surface cover in the northwestern parcel consists of asphaltic concrete pavements that are in poor condition, with severe cracking throughout. The remaining areas of the site are vacant and undeveloped. The ground surface cover in the eastern parcels consists of exposed soil with sparse native grass and weed growth. A soil berm 3± feet in height is located along the southeastern property line.

Detailed topographic information was not available at the time of this report. However, based on topographic information obtained from Google Earth, the site topography ranges from 1350± feet mean sea level (msl) in the northern area of the site to 1331± feet msl in the southern area of the site. Overall site topography slopes gently to the south at a gradient of 3± percent. The berm in the southeastern portion of the site slopes to the east at a gradient of 8± percent.

3.2 Proposed Development

A conceptual site plan (Scheme B.1) for the proposed development, prepared by GAA Architects was provided to our office. Based on the site plan, the site will be developed with one new warehouse, 115,500± ft² in size, located in the central area of the site. The building will be constructed with dock-high doors located along a portion of the eastern building wall. The building will be surrounded by asphaltic concrete pavements for parking and drive lanes and Portland cement concrete pavements for the loading dock areas. Limited areas of landscape planters and concrete flatwork will be included throughout the site.

Detailed structural information has not been provided. It is assumed that the new building will be a single-story structure of tilt-up concrete construction, typically supported on a conventional shallow foundation system with a concrete slab-on-grade floor. Based on the assumed

construction, maximum column and wall loads are expected to be on the order of 100 kips and 4 to 6 kips per linear foot, respectively.

Grading plans for the proposed development were not available at the time of this report. The proposed development is not expected to include any significant amounts of below-grade construction such as basements or crawl spaces.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of four (4) borings advanced to depths of 2 to 15± feet below existing site grades. Three (3) of the borings were terminated at depth shallower than planned due to refusal on very dense cobbles. Additionally, four (4) trenches were excavated to depths of 5½ to 10½± feet below the existing site grades. All of the borings and trenches were logged during drilling and excavation by a member of our staff.

The borings were advanced with hollow-stem augers, by a limited access track-mounted drilling rig. The trenches were excavated using a backhoe with a 24-inch-wide bucket. Representative bulk and relatively undisturbed soil samples were taken during drilling. **Undisturbed ring samples were not considered feasible due the extensive gravel and cobble content at this site.** Samples were taken using a 1.4±-inch inside diameter split spoon sampler, in general accordance with ASTM D-1586. Both of these samplers are driven into the ground with successive blows of a 140-pound weight falling 30 inches. The blow counts obtained during driving are recorded for further analysis. Bulk samples were collected in plastic bags to retain their original moisture content and transported to our laboratory.

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

4.2 Geotechnical Conditions

Pavements

Asphaltic concrete pavements, 3± inches thick, were present at the ground surface of Boring No. B-1. Portland cement concrete pavements, 7± inches thick, were present at the ground surface of Boring No. B-3.

Artificial Fill

Artificial fill soils were encountered beneath the pavements at Boring No. B-1, at the ground surface of Boring No. B-4, and at all of the trench locations, extending to depths of 1½ to 5± feet below the existing site grades. The fill soils generally consist of medium dense to very dense silty fine sands with varying medium to coarse sand and fine to coarse gravel content with occasional cobbles and boulders. The fill soils possess a disturbed appearance and some samples

contain debris, such as brick fragments, rebar, and plastic, resulting in their classification as artificial fill.

Soils classified as possible fill were encountered beneath the PCC pavements at Boring No. B-3, and beneath the artificial fill soils at Boring No. B-4, extending to depths of 2 to 5½± feet below existing site grades. These materials generally consist of gravelly fine to coarse sands, with varying silt content and occasional cobbles. The materials resemble the underlying native alluvium, but possess a somewhat disturbed appearance, resulting in their classification as possible fill. Boring No. B-3 was terminated within the possible fill soils, at a depth of 2± feet, due to refusal on very dense cobbles.

Alluvium

Native alluvial soils were encountered at the ground surface of Boring No. B-2, and below the artificial fill and possible fill soils at all of the remaining boring and trench locations, with the exception of Boring No. B-3, extending to at least the maximum depth explored of 15± feet below existing site grades. The alluvium generally consists of dense to very dense gravelly fine to coarse sands, with occasional to abundant cobbles and boulders.

Groundwater

Free water was not encountered within any of the boring and trenches. Based on the lack of any water within the borings and trenches and the moisture contents of the recovered soil samples, the static groundwater is considered to have existed at a depth in excess of 15± feet at the time of the subsurface exploration.

As part of our research, we also reviewed recent groundwater data available within the vicinity of the site. The primary reference used to determine the groundwater depths in this area is the California Department of Water Resources website, http://wdl.water.ca.gov/waterdatalibrary/. The nearest monitoring well in this database is located approximately 6,699± feet northwest of the site. Water level readings within this monitoring well indicates a high groundwater level of 247± feet (April, 2019).

5.0 LABORATORY TESTING

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

Classification

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

Moisture Content

The moisture contents have been determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Maximum Dry Density and Optimum Moisture Content

A representative bulk sample has been tested for its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per ASTM D-1557 and are presented on Plate C-1 in Appendix C of this report. This test is generally used to compare the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date.

Soluble Sulfates

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

Sample Identification	Soluble Sulfates (%)	Severity
B-1 @ 0 to 5 feet	<0.001	Not Applicable (S0)

6.0 CONCLUSIONS AND RECOMMENDATIONS

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

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

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

6.1 Seismic Design Considerations

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

Faulting and Seismicity

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

Seismic Design Parameters

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

Based on standards in place at the time of this report, the proposed development is expected to be designed in accordance with the requirements of the 2016 edition of the California Building Code (CBC). However, it is also possible that the proposed development may be designed using the 2019 CBC, which will be adopted on January 1, 2020. Therefore, this report provides design parameters for both the 2016 CBC and the 2019 CBC. Other design consultants should verify the version of the code under which the proposed development will be submitted.

The 2016 and 2019 CBC Seismic Design Parameters have been generated using the SEAOC/OSHPD Seismic Design Maps Tool, a web-based software application available at the website www.seismicmaps.org. This software application calculates seismic design parameters in accordance with several building code reference documents, including ASCE 7-10 and ASCE 7-16, upon which the 2016 CBC and 2019 CBC are based, respectively. The application utilizes a database of risk-targeted maximum considered earthquake (MCE_R) site accelerations at 0.01-degree intervals for each of the code documents. The tables below were created using data obtained from the application. The output generated from this program is included as Plates E-1A (2016 CBC) and E-1B (2019 CBC) in Appendix E of this report. Based on this output, the following parameters may be utilized for the subject site:

2016 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped Spectral Acceleration at 0.2 sec Period	S_S	2.402
Mapped Spectral Acceleration at 1.0 sec Period	S_1	0.895
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	2.402
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.343
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.601
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.895

The 2019 CBC requires that a site-specific ground motion study be performed in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped S_1 value greater than 0.2. However, Section 11.4.8 of ASCE 7-16 also indicates an exception to the requirement for a site-specific ground motion hazard analysis for certain structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) indicates that "In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites." **Based on our understanding of the proposed development, the seismic design parameters presented below were calculated assuming that the exception in Section 11.8.4 applies to the proposed structures at this site. However, the structural engineer should verify that this exception is applicable to the proposed structures.** Based on the exception, the spectral response accelerations presented below were calculated using the site coefficients (F_a and F_v) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2019 CBC.

2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped MCE_R Acceleration at 0.2 sec Period	S_S	1.694
Mapped MCE_R Acceleration at 1.0 sec Period	S_1	0.637
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.694
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.083
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.129
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.722

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

Liquefaction

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

The California Geological Survey (CGS) has not yet conducted detailed seismic hazards mapping in the area of the subject site. The general liquefaction susceptibility of the site was determined by research of the San Bernardino County Official Land Use Plan, General Plan, Geologic Hazard Overlay, Map FH27-C for the Ontario Quadrangle indicates that the subject site is not located within an area of liquefaction susceptibility. Based on the mapping performed by the county of San Bernardino and the subsurface conditions encountered at the boring and trench locations, liquefaction is not considered to be a design concern for this project.

6.2 Geotechnical Design Considerations

General

The overall site is underlain by artificial fill soils, extending to depths of 1½ to 5± feet below the existing site grades. No documentation regarding the placement or compaction of these fill soils has been provided nor is expected to be available. The existing fill soils, in their present condition, are not considered suitable to support the foundations loads of new structure. Below these materials, the alluvium consists of high strength, dense to very dense well-graded sands and gravelly sands, with occasional to extensive cobbles and boulders. Therefore, remedial grading is recommended within the proposed building area in order to remove the artificial fill materials, and replace these materials as compacted structural fill.

Most of the near-surface soils encountered at the boring and trench locations possess occasional to extensive cobbles and boulders. Recommendations for the handling and placement of oversized materials are presented in Section 6.3 of this report.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils and a portion of the near-surface native alluvium soils and replace these materials as compacted structural fill. The native alluvium soils that will remain in place below the recommended depth of overexcavation will not be subject to significant stress increases from the foundations of the new structure. Therefore, following completion of the recommended grading, post-construction settlements are expected to be within tolerable limits.

Expansion

The near-surface soils generally consist of sands and silty sands with no appreciable clay content. These materials have been visually classified as non-expansive. Therefore, no design considerations related to expansive soils are considered warranted for this site.

Soluble Sulfates

The results of the soluble sulfate testing indicate that the levels of soluble sulfates within the selected sample of the on-site soils correspond to Class S0 with respect to the American Concrete Institute (ACI) Publication 318-05 Building Code Requirements for Structural Concrete and Commentary, Section 4.3. Therefore, specialized concrete mix designs are not considered to be necessary, with regard to sulfate protection purposes. It is, however, recommended that additional soluble sulfate testing be conducted at the completion of rough grading to verify the soluble sulfate concentrations of the soils which are present at pad grade within the building area.

Shrinkage/Subsidence

Removal and recompaction of the artificial fill and near-surface native soils is estimated to result in an average shrinkage of 6 to 14 percent. The shrinkage potential of the different soil strata at the site is expected to vary significantly due to the highly variable cobble and boulder content. It should be noted that this shrinkage estimate is based on our experience with similar projects in

the area since collecting small-diameter soil samples was not feasible due to the presence of cobbles and boulders. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Minor ground subsidence is expected to occur in the soils below the zone of removal due to settlement and machinery working. The subsidence is estimated to be 0.1 feet. This estimate is based on previous experience and the subsurface conditions encountered at the test boring and trench locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely. Additionally, volume loss due to removal of oversized rock materials is difficult to assess precisely.

Grading and Foundation Plan Review

No grading or foundation plans were available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

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

Site Stripping and Demolition

Demolition of the existing buildings, pavements, and any associated improvements will be necessary to facilitate the proposed development site. Demolition of the existing structures should include all foundations, floor slabs, and any associated utilities. Any septic systems encountered during demolition and/or grading (if present) should be removed in their entirety. Any associated leach fields or other existing underground improvements should also be removed in their entirety. All applicable federal, state and local specifications and regulations should be followed in demolition, abandonment, and disposal of the existing structures and resulting debris.

Initial site stripping should include removal of the surficial vegetation from the site. Stripping should include the sparse native grass and weeds. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

Treatment of Existing Soils: Building Pad

Remedial grading will be necessary within the proposed building pad area to remove the existing undocumented fill soils and the upper portion of the near surface native alluvial soils. The fill soils extend to depths of 1½ to 5± feet at the boring and trench locations. As discussed above, these materials are considered to represent undocumented fill. The existing fill soils should be removed in their entirety. In addition, the overexcavation is recommended to extend to a depth of at least 3 feet below existing grade and 3 feet below proposed building pad subgrade elevation, whichever is greater. Within the influence zones of the new foundations, the overexcavation should extend to a depth of at least 3 feet below proposed foundation bearing grade.

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

Following completion of the overexcavation, the subgrade soils within the building area should be evaluated by the geotechnical engineer to verify their suitability to serve as the structural fill subgrade, as well as to support the foundation loads of the new structure. This evaluation should include proofrolling and probing to identify any soft, loose or otherwise unstable soils that must be removed. Some localized areas of deeper excavation may be required if loose, porous, or low density native soils are encountered at the base of the overexcavation. **Any soils classified as possible fill soils on the boring logs should be evaluated at this time, in order to determine if they consist of undocumented fill materials. If so, then these undocumented fill soils should be removed as discussed above.**

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches and thoroughly flooded to achieve a moisture content of 0 to 4 percent above optimum moisture content. The subgrade soils should then be recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The building pad area may then be raised to grade with previously excavated soils or imported structural fill.

Treatment of Existing Soils: Retaining Walls and Site Walls

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

If the lateral and/or vertical extents of overexcavation are not achievable for the project retaining walls or site walls, then additional recommendations including, but not limited to reduced design

bearing pressures may be required. Additionally, specialized grading techniques such as slot cutting or shoring may be required in order to facilitate construction.

Treatment of Existing Soils: Parking and Drive Areas

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

Subgrade preparation in the new parking and drive areas should initially consist of removal of all soils disturbed during stripping and demolition operations. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to 0 to 4 percent above optimum, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of undocumented fill soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

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

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to within 0 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer. **The near-surface soils, especially those present beneath the existing fill materials, possess significant quantities of oversized material, including cobbles and boulders. Some sorting and/or crushing of these materials may be required to generate soils that are suitable for reuse as compacted structural fill.**
- All grading and fill placement activities should be completed in accordance with the requirements of the 2016 CBC and the grading code of the city of Upland.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Selective Grading and Oversized Material Placement

The existing soils possess significant cobble and/or boulder content. It is expected that large scrapers (Caterpillar 657 or equivalent) will be adequate to move the cobble containing soils as well as some of the soils containing smaller boulders. However, some larger boulders (2± feet in size) were also encountered at the trench locations. It will likely be necessary to move such larger boulders individually, and place them as oversized materials in accordance with the Grading Guide Specifications, in Appendix D of this report. **Based on observations during our subsurface exploration activities, the on-site soils possessed approximately 25 to 40% cobble content and approximately 20 to 35% boulder content.**

Since the proposed grading will require excavation of cobble and boulder containing soils, it may be desirable to selectively grade the proposed building pad area. The presence of particles greater than 3 inches in diameter within the upper 1 to 3 feet of the building pad subgrade will impact the utility and foundation excavations. Depending on the depths of fills required within the proposed parking areas, it may be feasible to sort the on-site soils, placing the materials greater than 3 inches in diameter within the lower depths of the fills, and limiting the upper 1 to 3 feet of soils to materials less than 3 inches in size. Oversized materials could also be placed within the lower depths of the recommended overexcavations. In order to achieve this grading, it would likely be necessary to use rock buckets and/or rock sieves to separate the oversized materials from the remaining soil. Although such selective grading will facilitate further construction activities, it is not considered mandatory and a suitable subgrade could be achieved without such extensive sorting. However, in any case, it is recommended that all materials greater than 6 inches in size be excluded from the upper 1 foot of the surface of any compacted fills.

The placement of any oversized materials should be performed in accordance with the Grading Guide Specifications included in Appendix D of this report. If disposal of oversized materials is required, rock blankets or windrows should be used and such areas should be observed during construction and placement by a representative of the geotechnical engineer.

Imported Structural Fill

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

Utility Trench Backfill

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

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

Any soils used to backfill voids around subsurface utility structures, such as manholes or vaults, should be placed as compacted structural fill. If it is not practical to place compacted fill in these areas, then such void spaces may be backfilled with lean concrete slurry. Uncompacted pea gravel or sand is not recommended for backfilling these voids since these materials have a potential to settle and thereby cause distress of pavements placed around these subterranean structures.

6.4 Construction Considerations

Excavation Considerations

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

Groundwater

The static groundwater table at this site is considered to exist at a depth greater than 15± feet. Therefore, groundwater is not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pad will be underlain by structural fill soils used to replace existing undocumented fill soils and the upper portion of the near-surface native alluvium. These new structural fill soils are expected to extend to depths of at least 3 feet below proposed foundation bearing grade. Based on this subsurface profile, the proposed structure may be supported on conventional shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 3,000 lbs/ft^2.
- Minimum wall/column footing width: 14 inches/24 inches.
- Minimum longitudinal steel reinforcement within strip footings: Two (2) No. 5 rebars (1 top and 1 bottom).

- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 18 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.

- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressure presented above may be increased by one-third when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on geotechnical considerations; additional reinforcement may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

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

The foundation subgrade soils should also be properly moisture conditioned to 0 to 4 percent above the Modified Proctor optimum, to a depth of at least 12 inches below bearing grade. Since it is typically not feasible to increase the moisture content of the floor slab and foundation subgrade soils once rough grading has been completed, care should be taken to maintain the moisture content of the building pad subgrade soils throughout the construction process.

Estimated Foundation Settlements

Post-construction total and differential settlements of shallow foundations designed and constructed in accordance with the previously presented recommendations are estimated to be less than 1.0 and 0.5 inches, respectively. Differential movements are expected to occur over a 60-foot span, thereby resulting in an angular distortion of less than 0.002 inches per inch.

Lateral Load Resistance

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

- Passive Earth Pressure: 350 lbs/ft^3
- Friction Coefficient: 0.35

These are allowable values, and include a factor of safety. When combining friction and passive resistance, the passive pressure component should be reduced by one-third. These values assume that footings will be poured directly against compacted structural fill. The maximum allowable passive pressure is 3,000 lbs/ft^2.

6.6 Floor Slab Design and Construction

Subgrades which will support the new floor slab should be prepared in accordance with the recommendations contained in the ***Site Grading Recommendations*** section of this report. Based on the anticipated grading which will occur at this site, the floor of the new structure may be constructed as a conventional slab-on-grade supported on newly placed structural fill soils. These fill soils are expected to extend to a depth of at least 3 feet below finished pad grade. Based on geotechnical considerations, the floor slab may be designed as follows:

- Minimum slab thickness: 6 inches.
- Modulus of Subgrade Reaction: k = 150 psi/in
- Minimum slab reinforcement: Reinforcement is not required for geotechnical conditions. The actual floor slab reinforcement should be determined by the structural engineer, based upon the imposed loading.
- Slab underlayment: If moisture sensitive floor coverings will be used the minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire area where such moisture sensitive floor coverings are anticipated. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as 15-mil Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview.
- Moisture condition the floor slab subgrade soils to 0 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.
- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slab should be completed by the structural engineer to verify adequate thickness and reinforcement.

6.7 Retaining Wall Design and Construction

Small retaining walls are expected to be necessary in the area of the new truck loading docks and may also be required to facilitate the new site grades. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the boring and trench locations, the following parameters may be used in the design of new retaining walls for this site. We have provided parameters assuming the use of on-site soils for retaining wall backfill. The on-site soils generally consist of silty sands and sands with varying gravel content. Based on their classification, these materials are expected to possess a friction angle of at least 32 degrees when compacted to 90 percent of the ASTM-1557 maximum dry density.

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

RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type
		On-Site Silty Sands and Sands
Internal Friction Angle (ϕ)		32°
Unit Weight		131 lbs/ft^3
Equivalent Fluid Pressure:	Active Condition (level backfill)	40 lbs/ft^3
	Active Condition (2h:1v backfill)	62 lbs/ft^3
	At-Rest Condition (level backfill)	62 lbs/ft^3

The walls should be designed using a soil-footing coefficient of friction of 0.35 and an equivalent passive pressure of 350 lbs/ft^3. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

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

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

Retaining Wall Foundation Design

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

Seismic Lateral Earth Pressures

In accordance with the 2016 CBC, any retaining walls more than 6 feet in height must be designed for seismic lateral earth pressures. If walls 6 feet or more are required for this site, the geotechnical engineer should be contacted for supplementary seismic lateral earth pressure recommendations.

Backfill Material

On-site soils may be used to backfill the retaining walls. **However, all backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches.** The retaining wall backfill materials should be well graded.

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

All retaining wall backfill should be placed and compacted under engineering- controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557-91). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

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

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2

cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.

- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

6.8 Pavement Design Parameters

Site preparation in the pavement area should be completed as previously recommended in the ***Site Grading Recommendations*** section of this report. The subsequent pavement recommendations assume proper drainage and construction monitoring, and are based on either PCA or CALTRANS design parameters for a twenty (20) year design period. However, these designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The on-site soils generally consist of silty sands and sands. Based on their classification, these materials are expected to possess excellent pavement support characteristics, with estimated R-values greater than 60. Since R-value testing was not included in the scope of services for this project, the subsequent pavement design is based upon an assumed R-value of 60. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It is recommended that R-value testing be performed after completion of rough grading.

Asphaltic Concrete

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

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

ASPHALT PAVEMENTS (R = 60)					
Materials	Thickness (inches)				
	Parking Stalls (TI = 4.0)	Auto Drive Lanes (TI = 5.0)	Truck Traffic		
			(TI = 6.0)	(TI = 7.0)	(TI = 8.0)
Asphalt Concrete	3	3	3½	4	5
Aggregate Base	3	3	3	3	3
Compacted Subgrade	12	12	12	12	12

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

Portland Cement Concrete

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

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 60)				
Materials	Thickness (inches)			
	Automobile Parking and Drive Areas (TI=4.0 & 5.0)	Truck Traffic		
		(TI =6.0)	(TI =7.0)	(TI =8.0)
PCC	5	5	6	7
Compacted Subgrade (95% minimum compaction)	12	12	12	12

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

7.0 GENERAL COMMENTS

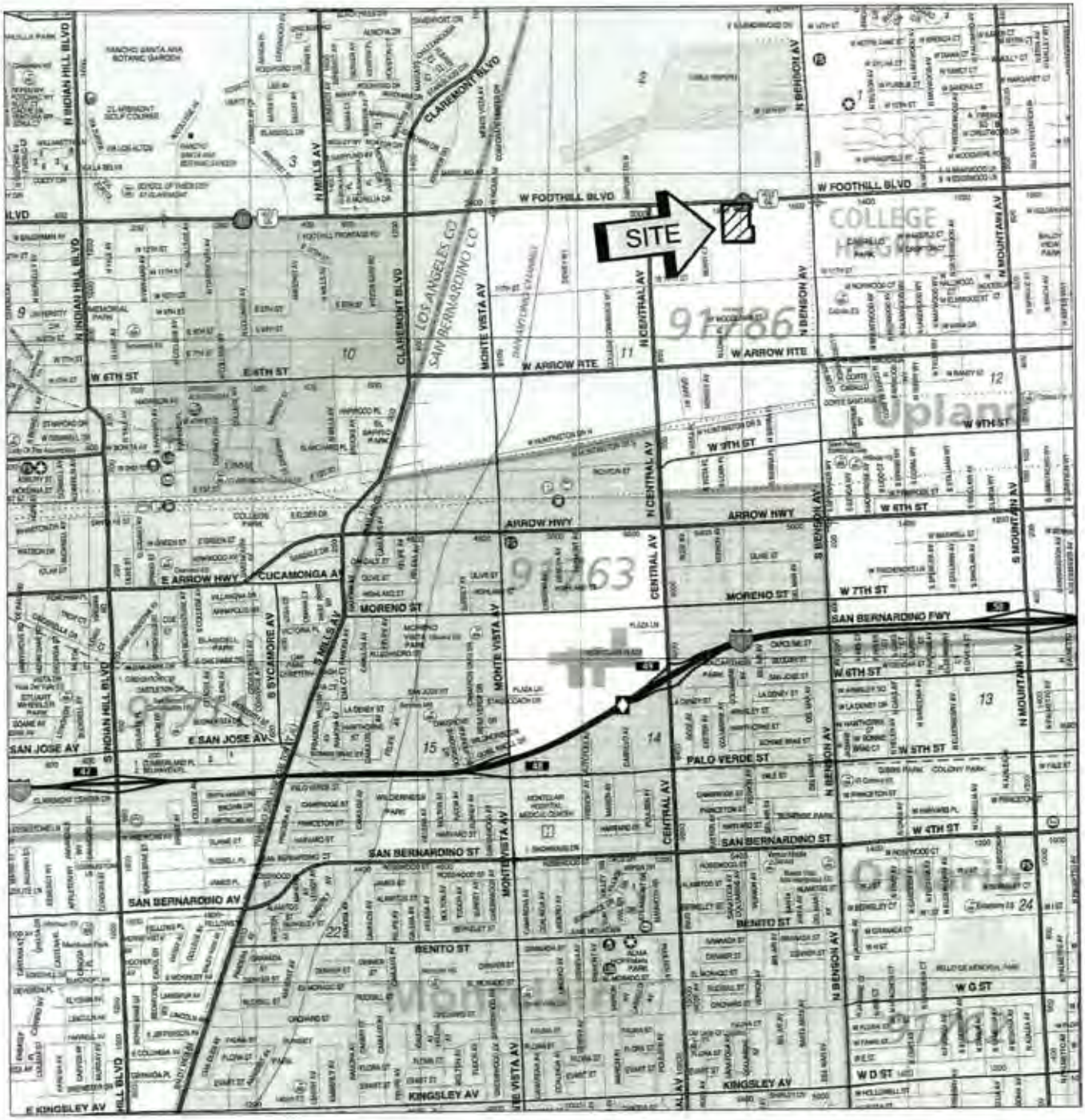
This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other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

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

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

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

APPENDIX A



SOURCE: SAN BERNARDINO COUNTY
THOMAS GUIDE, 2013

SITE LOCATION MAP

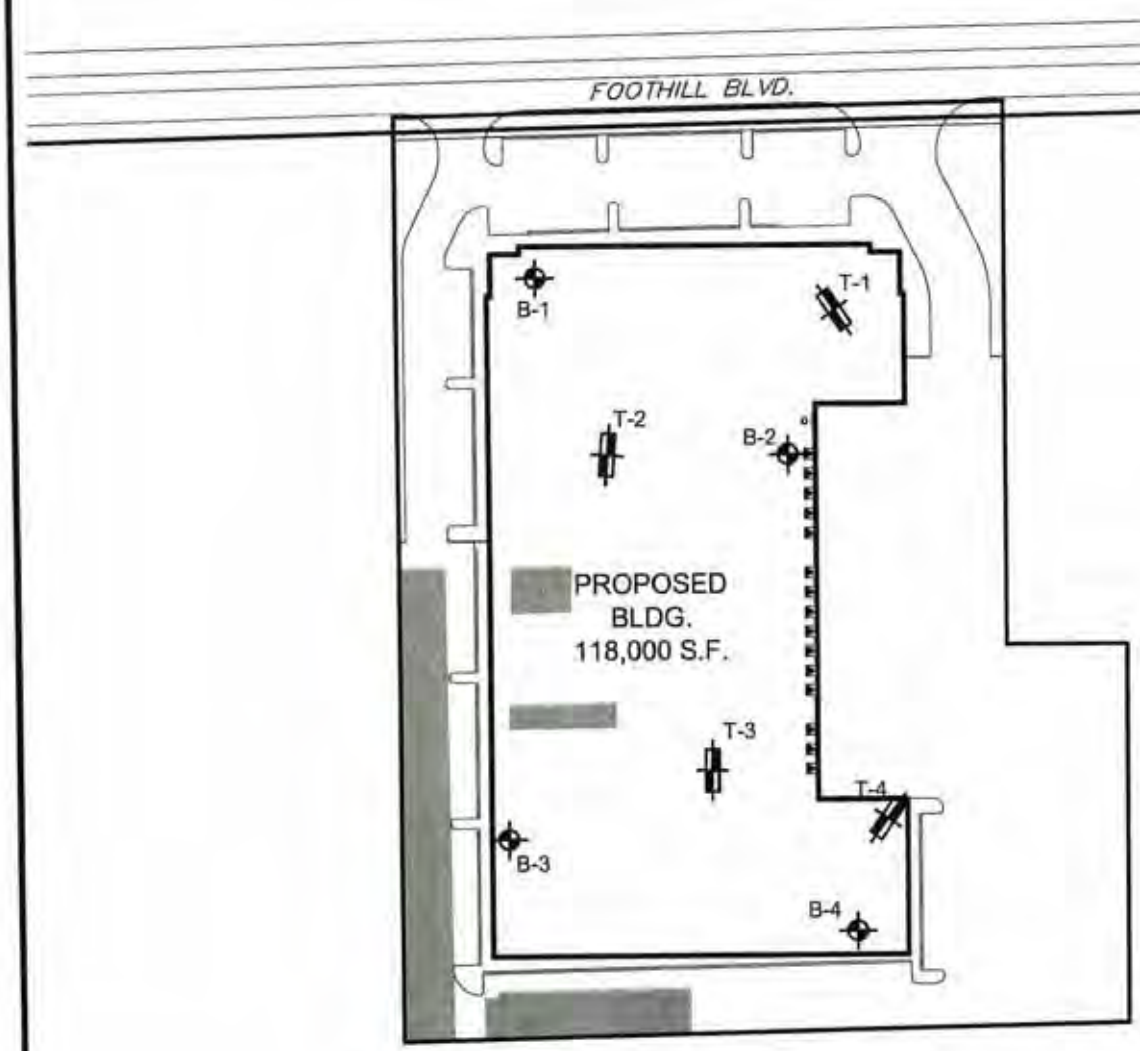
PROPOSED WAREHOUSE

UPLAND, CALIFORNIA

SCALE: 1" = 2400'	
DRAWN: SAM CHKD: RGT	
SCG PROJECT 19G216-1	
PLATE 1	

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



NORTH

GEOTECHNICAL LEGEND

- APPROXIMATE BORING LOCATION
- APPROXIMATE TRENCH LOCATION
- EXISTING STRUCTURES TO BE DEMOLISHED

NOTE: SITE PLAN PREPARED BY GAA ARCHITECTS.

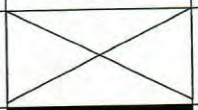
BORING AND TRENCH LOCATION PLAN
PROPOSED WAREHOUSE
UPLAND, CALIFORNIA

SCALE: 1" = 60'
DRAWN: JH
CHKD: RST
SCG PROJECT: 193318-1
PLATE 2A

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX B

BORING LOG LEGEND

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

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

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

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

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

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

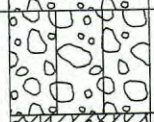
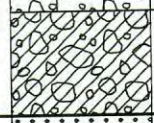
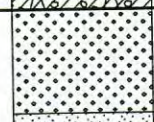
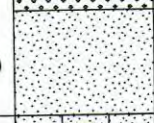
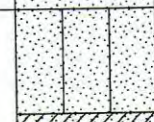
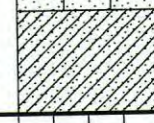
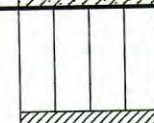
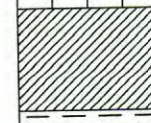
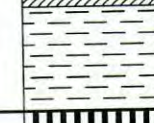
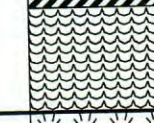
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

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

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

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, 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 DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL

BORING NO. B-1

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: 4 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, no discernible Aggregate base							
		16			FILL: Brown Silty fine Sand, little medium to coarse Sand, little fine to coarse Gravel, trace Asphaltic concrete fragments, medium dense-moist		8					
		50			ALLUVIUM Gray Brown fine to coarse Sand, little fine to coarse gravel, very dense-dry to damp		2					
5												
		69			Gray fine to coarse Sandy Gravel, occasional Cobbles, very dense-dry to damp		2					
					Boring Terminated at 7½ feet due to refusal on very dense Cobbles							

TBL 19G216.GPJ SOCALGEO.GDT 10/23/19

TEST BORING LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL

BORING NO. B-2

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: 11 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
5		50/3"			ALLUVIUM Light Gray Gravelly fine to coarse Sand, occasional to extensive Cobbles, trace Silt, dense to very dense-dry to damp		1					
		45					2					
		50/5"										No Sample Recovery
10		62					2					
15		78/11"					2					
					Boring Terminated at 15 feet							

TBL 19G216.GPJ SOCALGEO.GDT 10/23/19

TEST BORING LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL

BORING NO. B-3

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: --
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					7± inch PCC pavement							
					POSSIBLE FILL:Dark Gray Brown Gravelly fine to coarse Sand, little Silt, dense-damp		4					
					Boring Terminated at 2 feet due to refusal on very dense Cobbles							

TBL 19G216.GPJ SOCALGEO.GDT 10/23/19

TEST BORING LOG

PLATE B-3

SOUTHERN CALIFORNIA GEOTECHNICAL

BORING NO. B-4

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: 7 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		70/11"			FILL: Brown Silty fine Sand, trace to little medium to coarse Sand, trace fine to coarse Gravel, very dense-damp		3					
		67/11"			POSSIBLE FILL Dark Gray Brown Gravelly fine to coarse Sand, little Silt, very dense-damp to moist		7					
5		64			ALLUVIUM Light Gray Brown Gravelly fine to coarse Sand, extensive Cobbles, very dense-damp		2					
		67					3					
10					Boring Terminated at 11 feet due to refusal on very dense Cobbles							

TBL 19G216.GPJ SOCALGEO.GDT 10/23/19

TEST BORING LOG

PLATE B-4

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-1

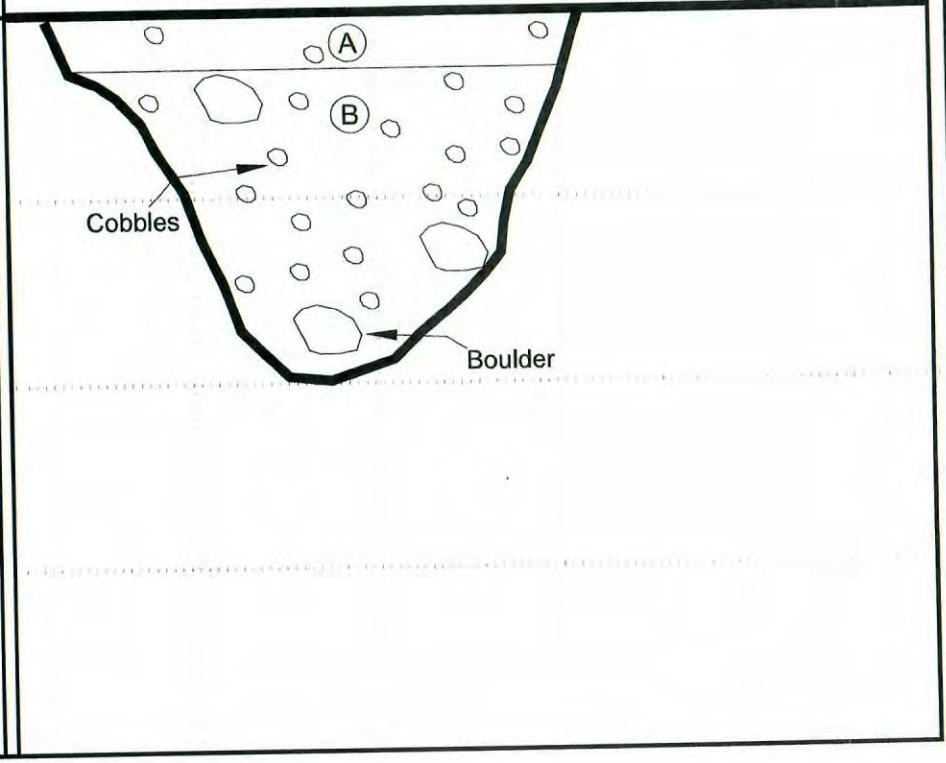
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 35 W
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
5	b			A: FILL: Brown Silty fine to medium Sand, some fine to coarse Gravel, medium dense-damp
	b			B: ALLUVIUM: Brown fine to coarse Sand, abundant Cobbles, abundant Boulders, very dense-dry
	b			
10	b			Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-2

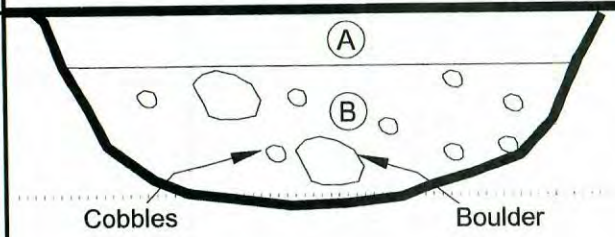
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 4 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
5	b			A: FILL: Brown Silty fine Sand, some medium Sand, trace fine to coarse Gravel, medium dense-moist
	b			B: ALLUVIUM: Brown fine Sand, abundant Cobbles, abundant Boulders, some fine to coarse Gravel, very dense-moist
	b			Trench Terminated @ 5.5 feet
10				
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-3

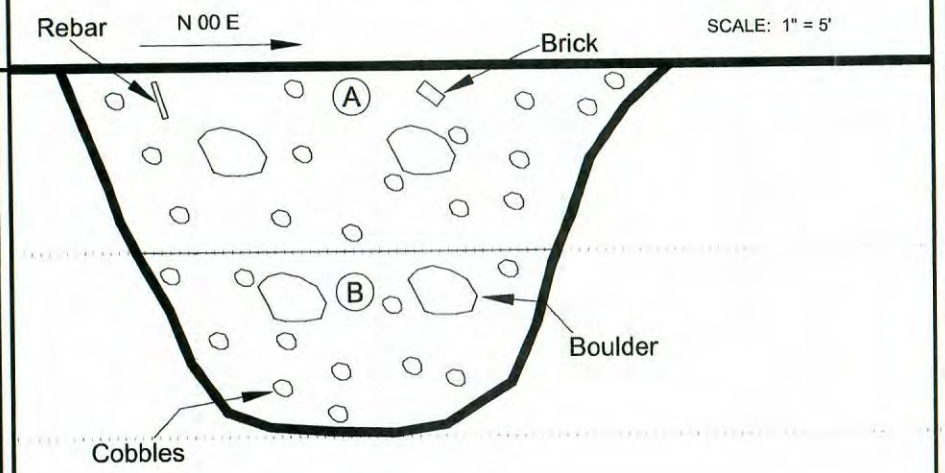
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 00 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b			A: FILL: Brown Silty fine Sand, some fine to coarse Gravel, abundant Cobbles, abundant Boulders, some Brick fragments, trace rebar, very dense-damp
5	b			
	b			B: ALLUVIUM: Brown fine to coarse Sand, abundant Cobbles, abundant Boulders, some fine to coarse Gravel, very dense-damp
10	b			Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-4

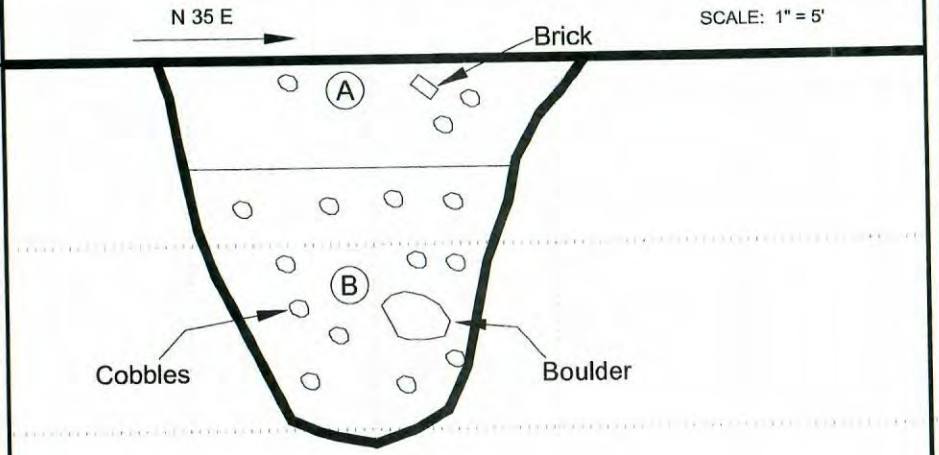
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 35 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
5	b			A: FILL: Dark Gray Brown Silty fine to coarse Sand, some fine to coarse Gravel, occasional Cobbles, abundant Boulders, trace Brick fragments, trace plastic, medium dense to dense-dry to damp
	b			
	b			
	b			B: ALLUVIUM: Light Gray Brown fine to coarse Sandy Gravel, abundant Cobbles, occasional Boulders, very dense-dry to damp
	b			
10				Trench Terminated @ 10.5 feet
15				

GRAPHIC REPRESENTATION



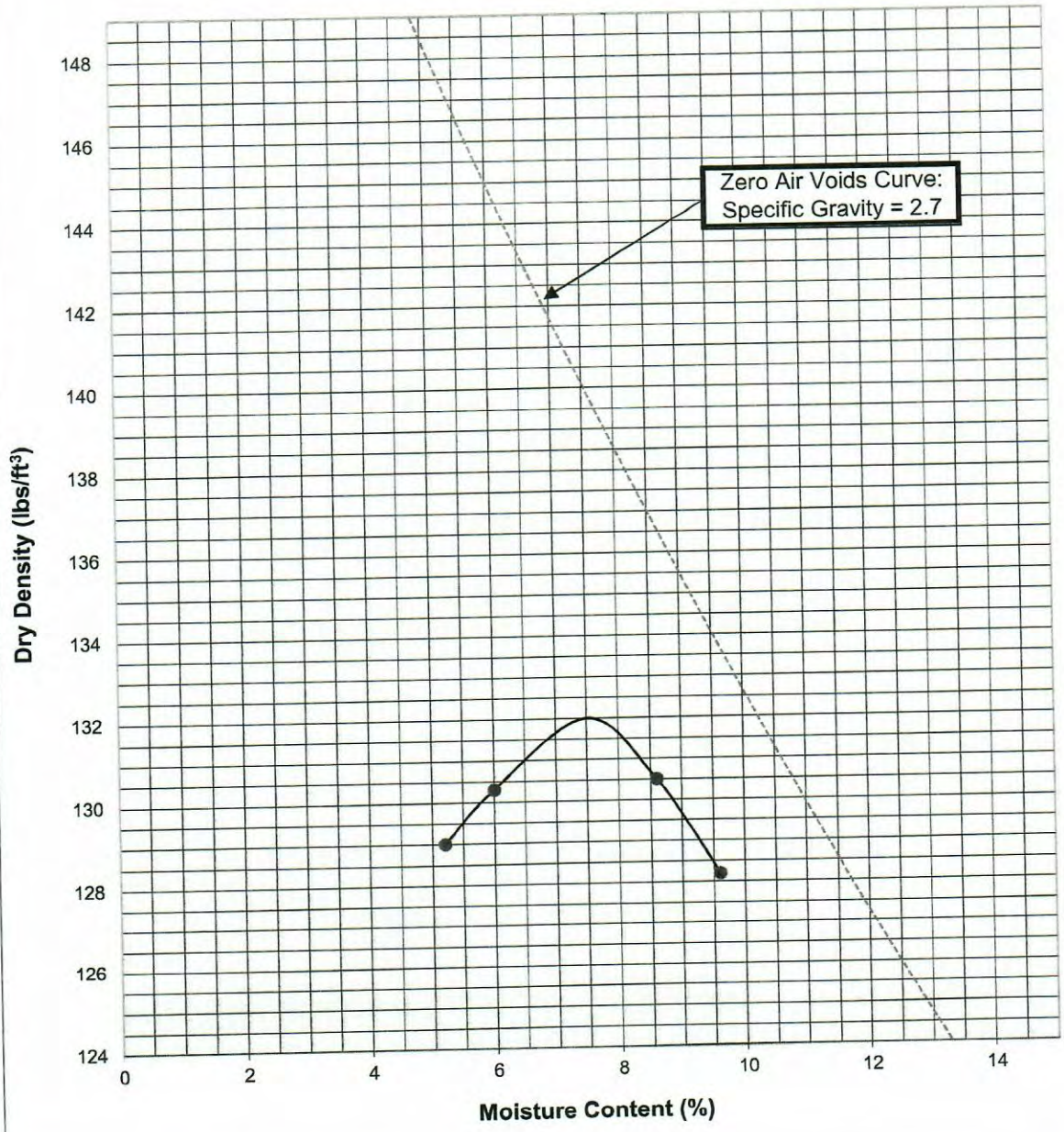
KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-8

APPENDIX C

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	B-1 @ 0-5'
Optimum Moisture (%)	7.5
Maximum Dry Density (pcf)	132
Soil Classification	Light Gray Brown Silty fine to coarse Sand, little fine to coarse Gravel

Proposed Warehouse
Upland, California
Project No. 19G216-1

PLATE C-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX D

GRADING GUIDE SPECIFICATIONS

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

General

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

Site Preparation

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

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.

- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.

- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.

- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.

- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted

- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as "contaminated," and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.

- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.

- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.

- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:

    - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.

    - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

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

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.

- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.

- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.

- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.

- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.

- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.

- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.

- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.

- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.

- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.

- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

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

Fill Slopes

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

Cut Slopes

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

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

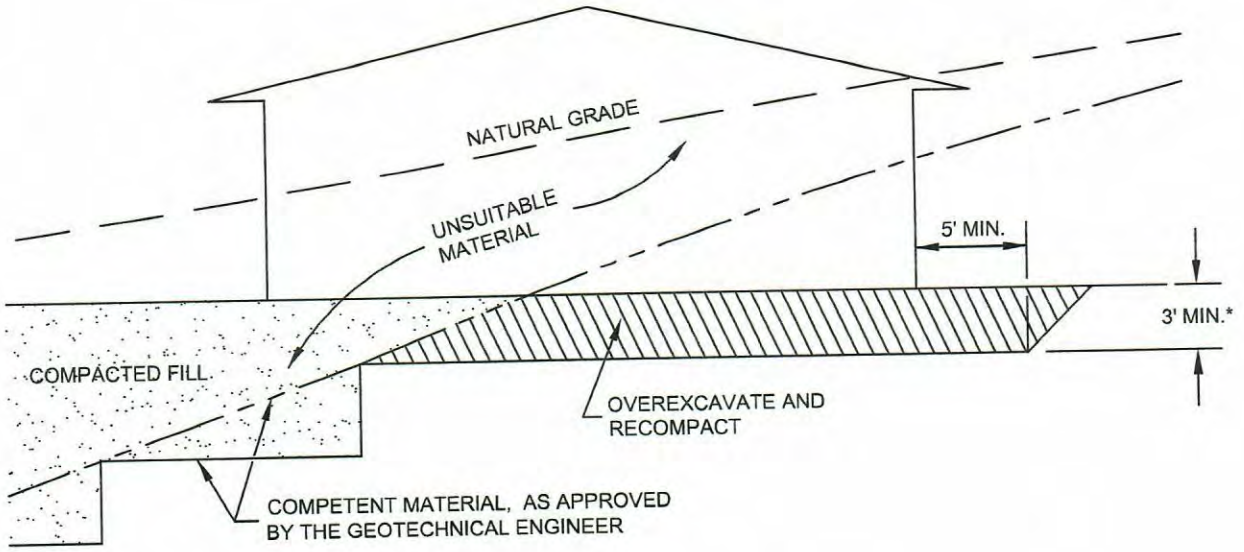
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.

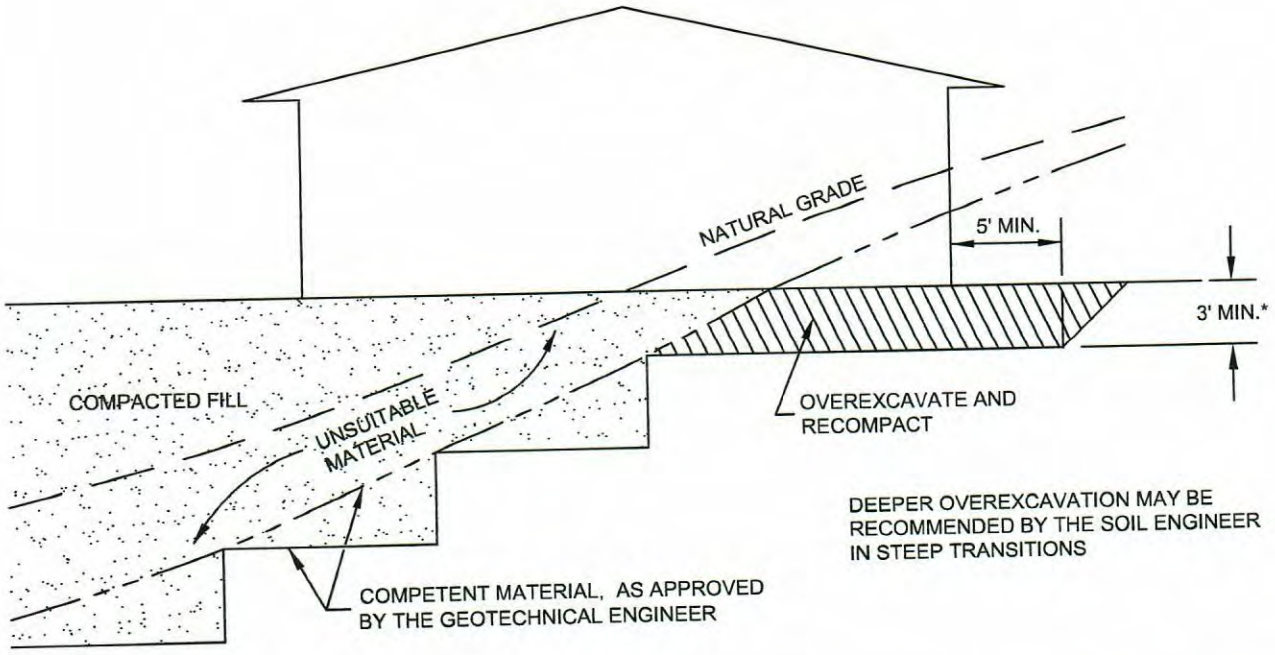
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.

- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ¾-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT



CUT/FILL LOT (TRANSITION)



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

TRANSITION LOT DETAIL

GRADING GUIDE SPECIFICATIONS

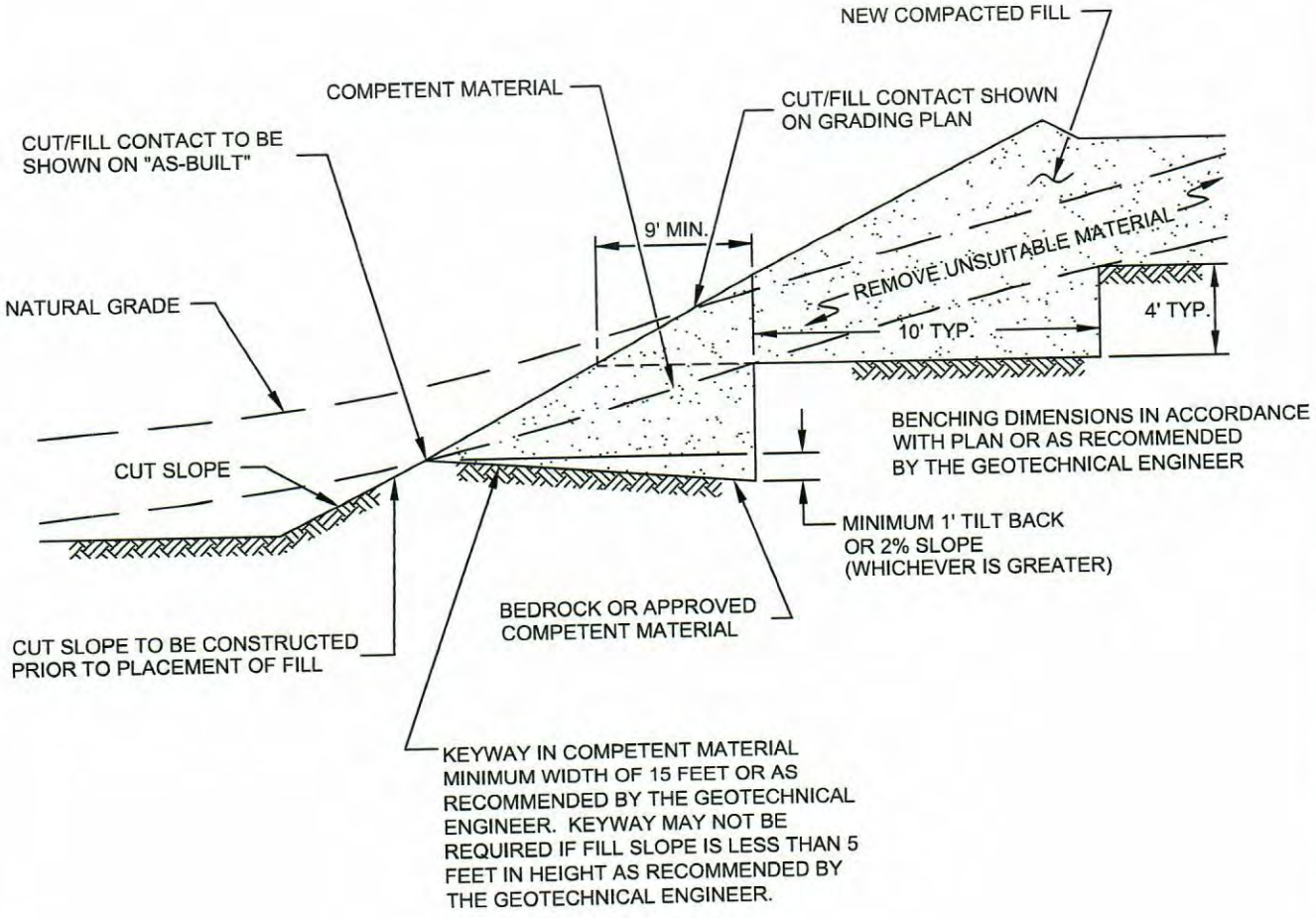
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-1

SoCalGeo

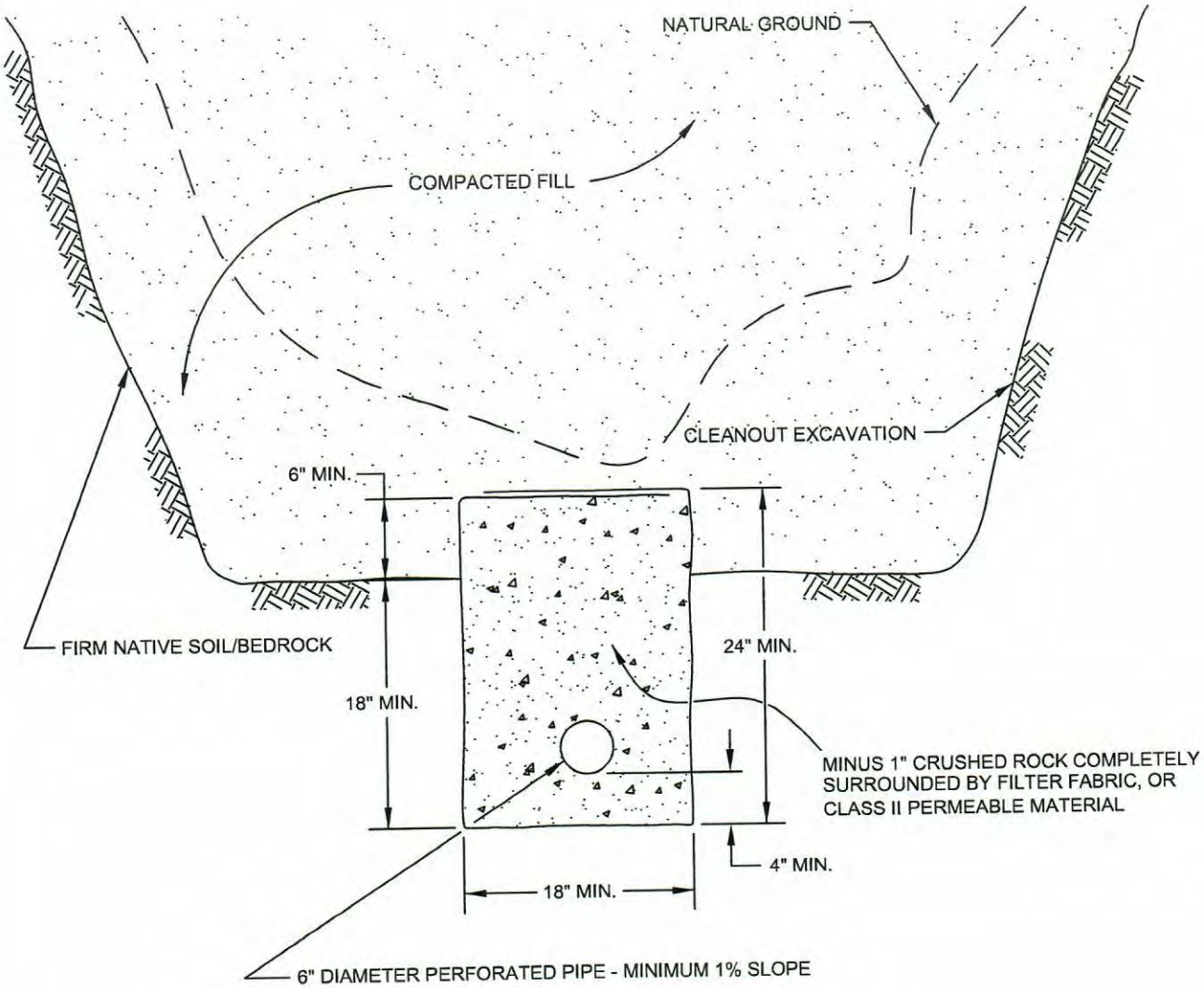
SOUTHERN CALIFORNIA GEOTECHNICAL



FILL ABOVE CUT SLOPE DETAIL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE	SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JAS CHKD: GKM	
PLATE D-2	



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

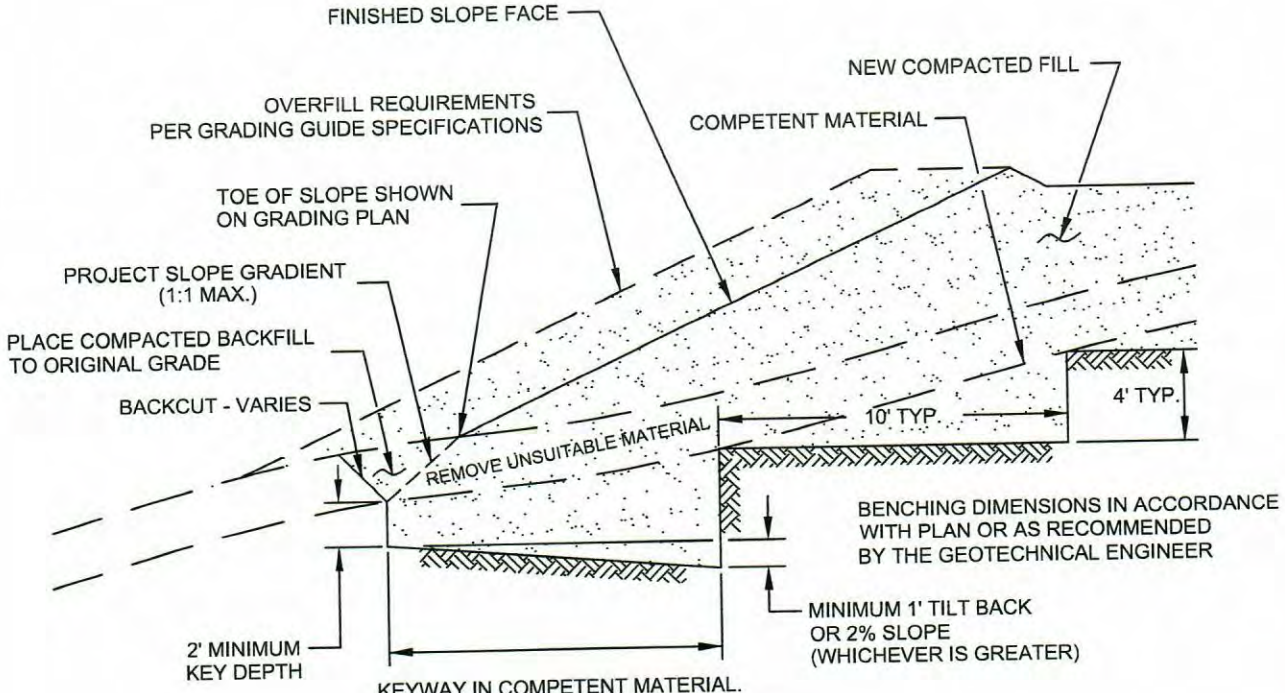
SCHEMATIC ONLY
NOT TO SCALE

CANYON SUBDRAIN DETAIL
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE
DRAWN: JAS
CHKD: GKM

PLATE D-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

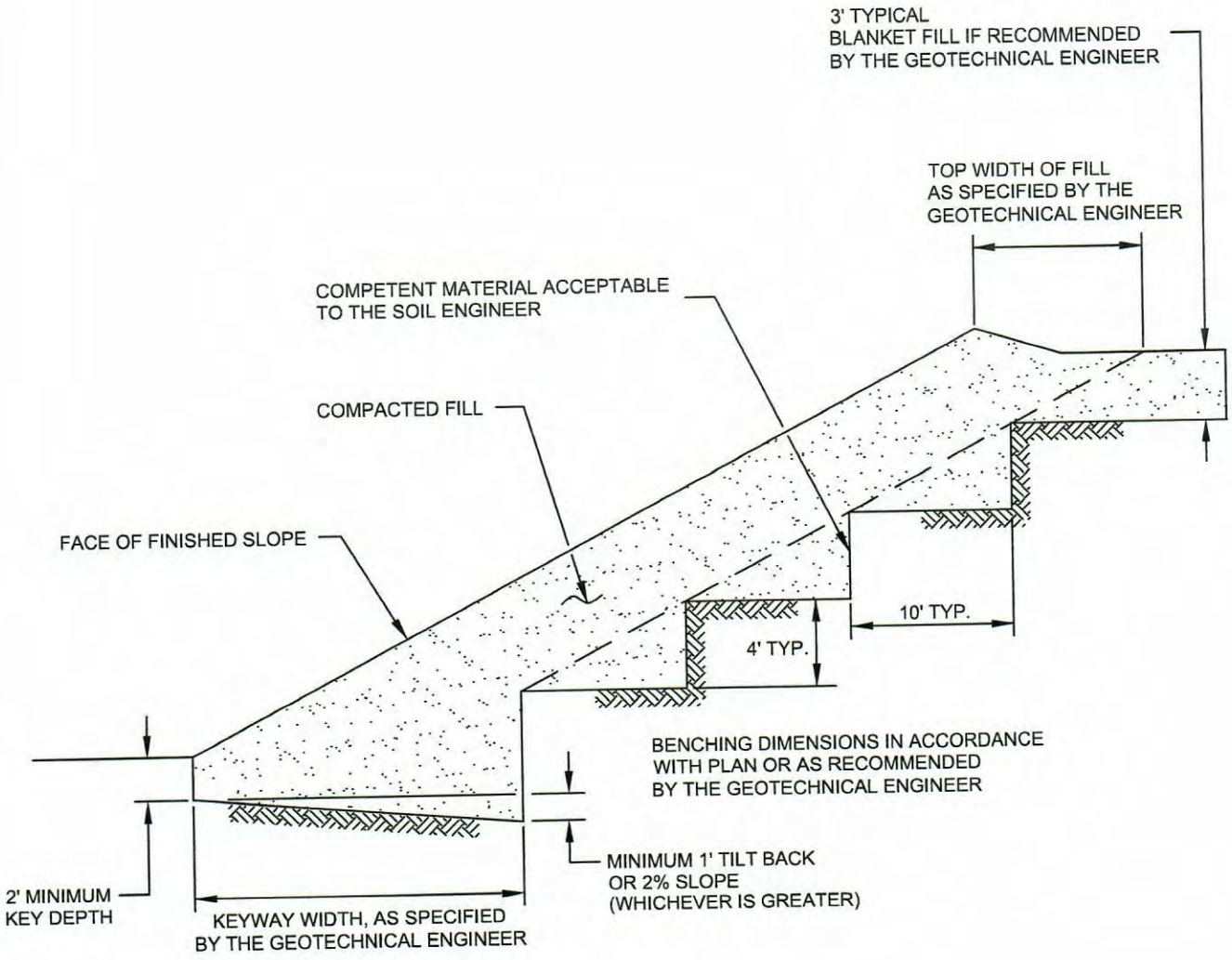


NOTE:
BENCHING SHALL BE REQUIRED
WHEN NATURAL SLOPES ARE
EQUAL TO OR STEEPER THAN 5:1
OR WHEN RECOMMENDED BY
THE GEOTECHNICAL ENGINEER.

FILL ABOVE NATURAL SLOPE DETAIL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE	SoCalGeo SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: JAS CHKD: GKM	
PLATE D-4	



STABILIZATION FILL DETAIL

GRADING GUIDE SPECIFICATIONS

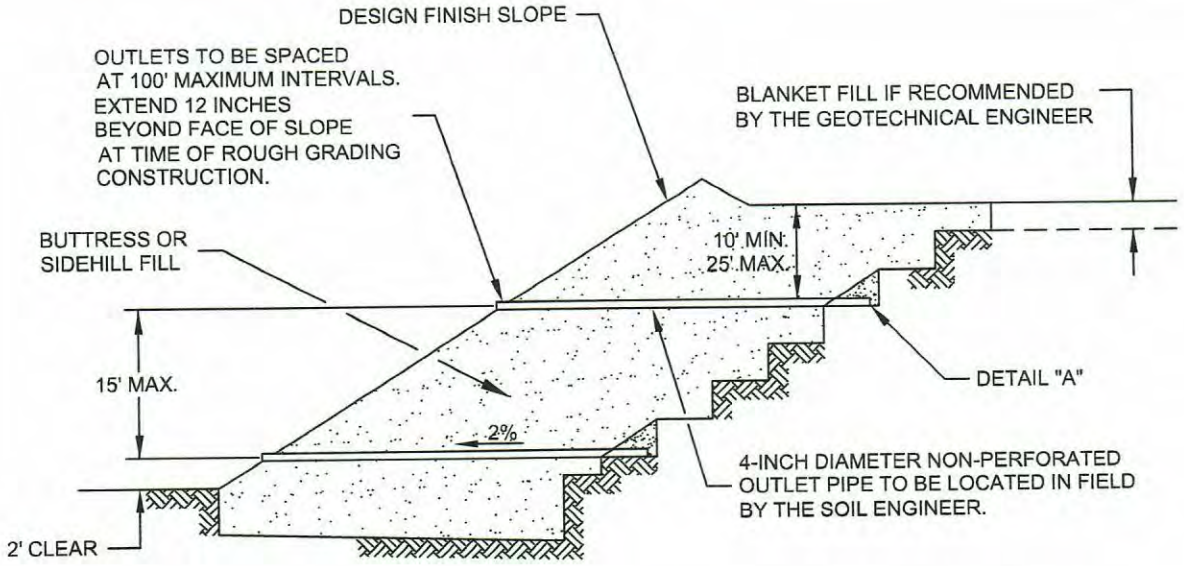
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-5

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



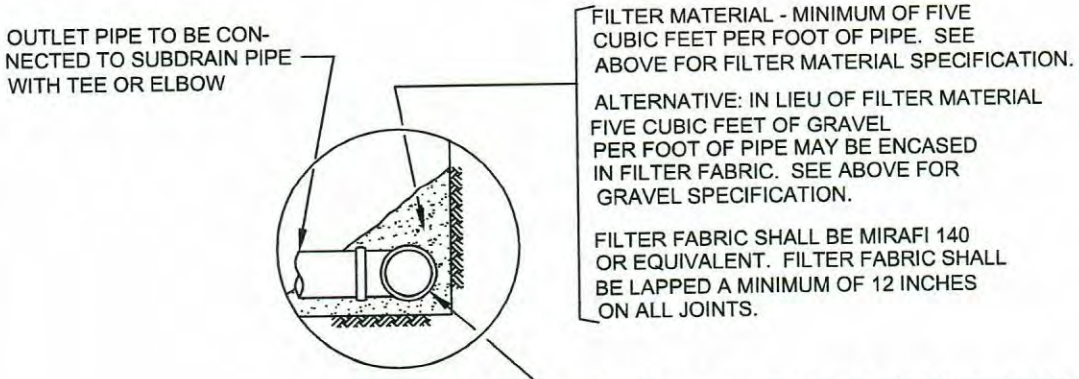
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

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

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50



DETAIL "A"

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

SLOPE FILL SUBDRAINS

GRADING GUIDE SPECIFICATIONS

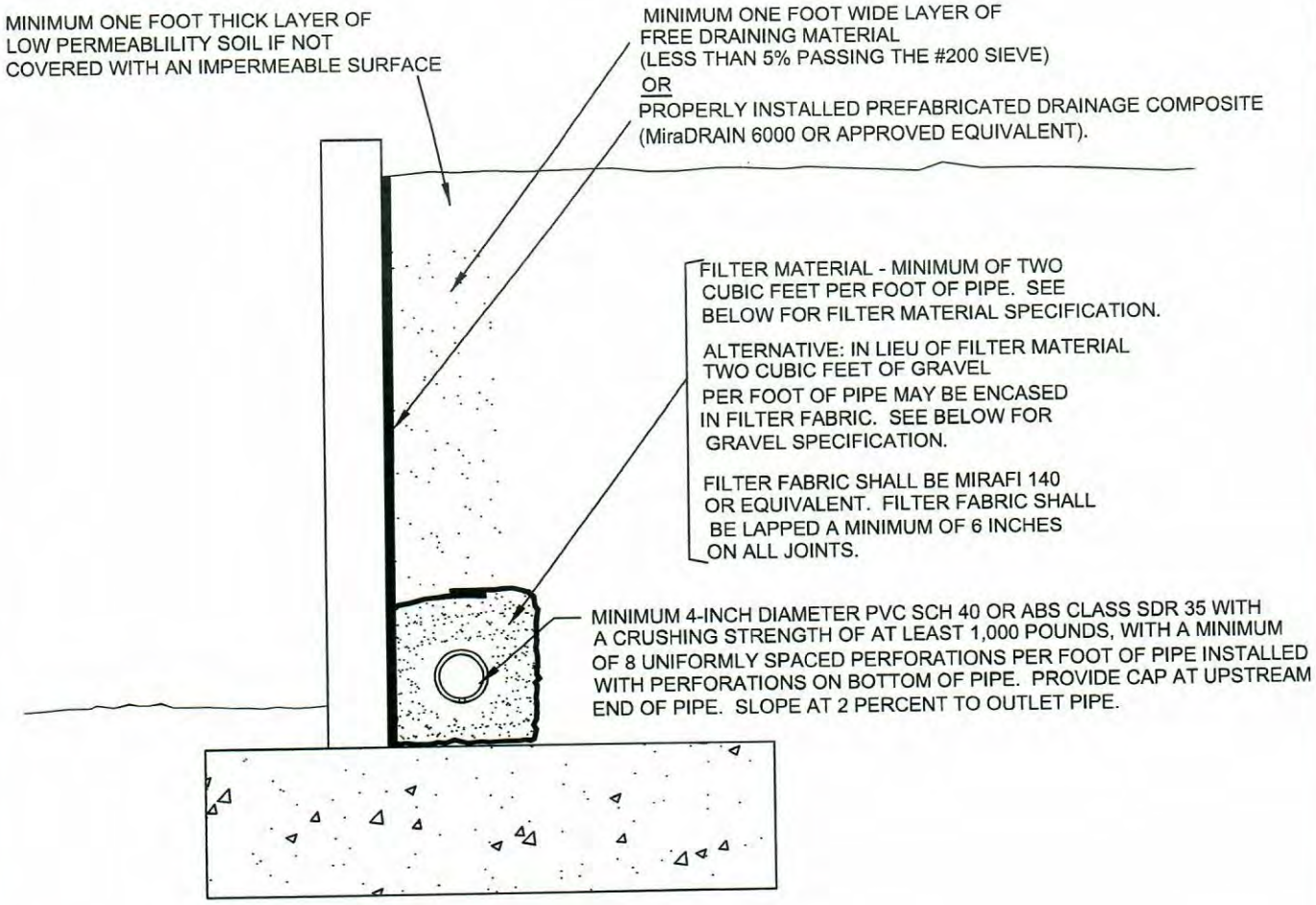
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-6

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



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

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

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50

RETAINING WALL BACKDRAINS

GRADING GUIDE SPECIFICATIONS

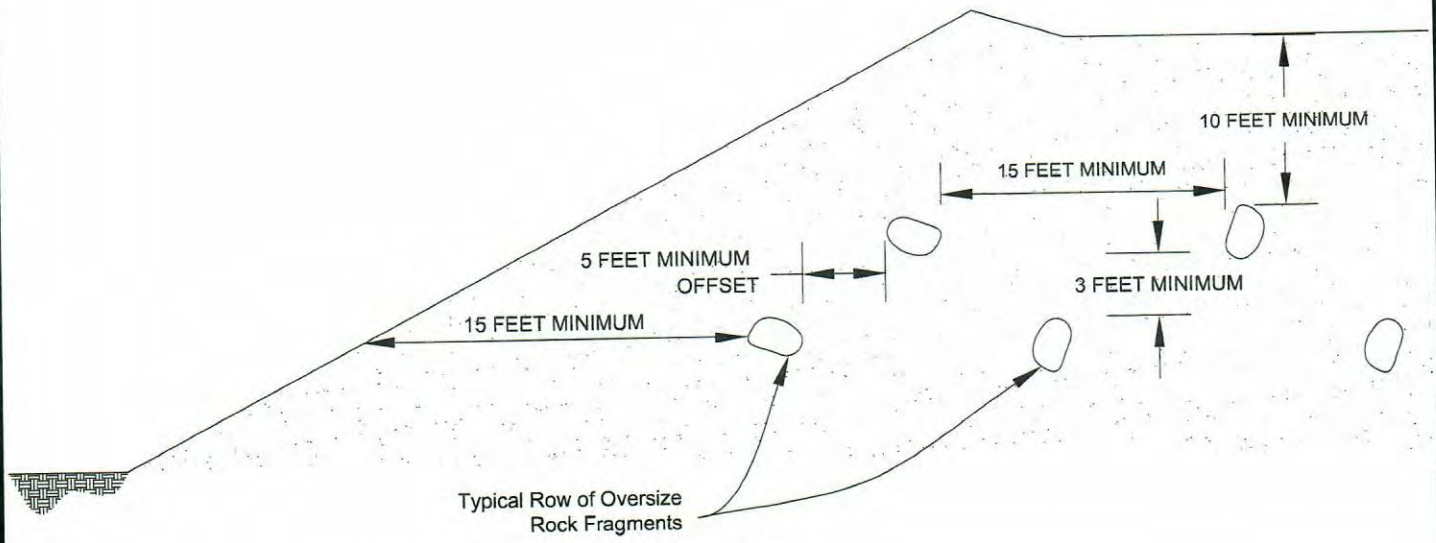
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

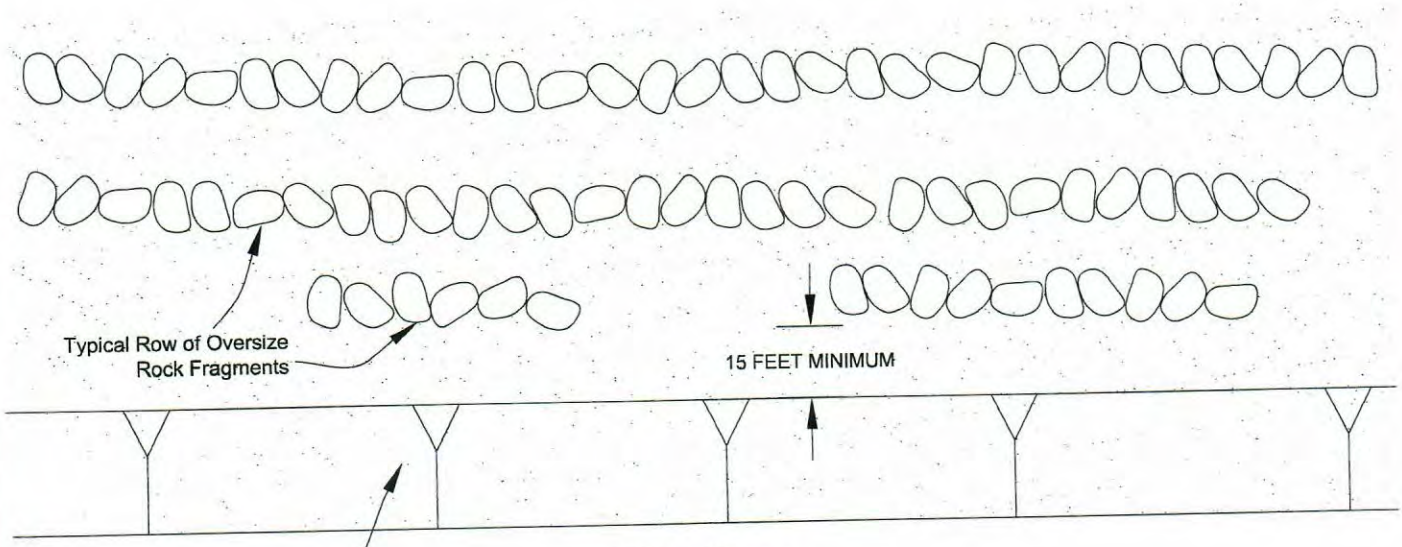
PLATE D-7

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



Section View



Plan View

PLACEMENT OF OVERSIZED MATERIAL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

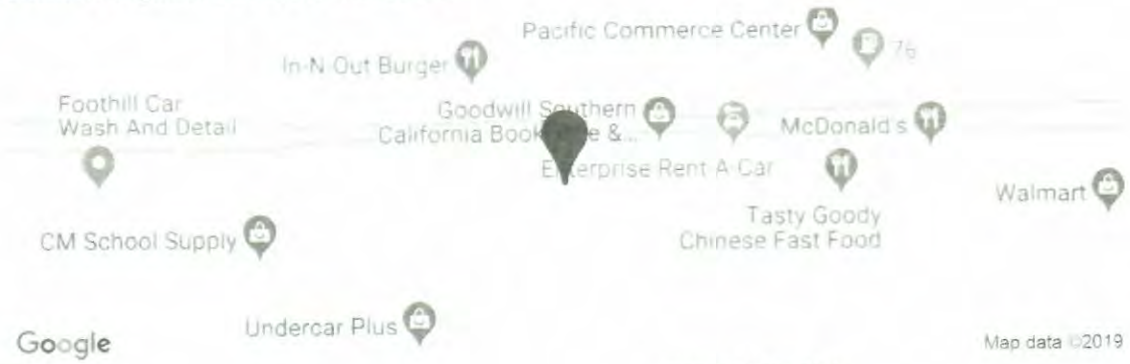
SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX

OSHPD

Latitude, Longitude: 34.106236, -117.685096

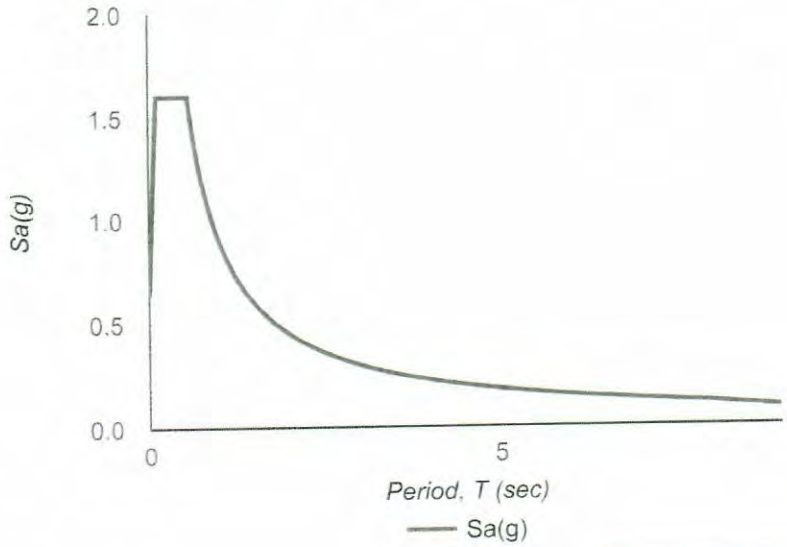


Date	10/16/2019, 12:59:47 PM
Design Code Reference Document	ASCE7-10
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
S_S	2.402	MCE_R ground motion. (for 0.2 second period)
S_1	0.895	MCE_R ground motion. (for 1.0s period)
S_{MS}	2.402	Site-modified spectral acceleration value
S_{M1}	1.343	Site-modified spectral acceleration value
S_{DS}	1.601	Numeric seismic design value at 0.2 second SA
S_{D1}	0.895	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	E	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	1.5	Site amplification factor at 1.0 second
PGA	0.933	MCE_G peak ground acceleration
F_{PGA}	1	Site amplification factor at PGA
PGA_M	0.933	Site modified peak ground acceleration

Design Response Spectrum



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

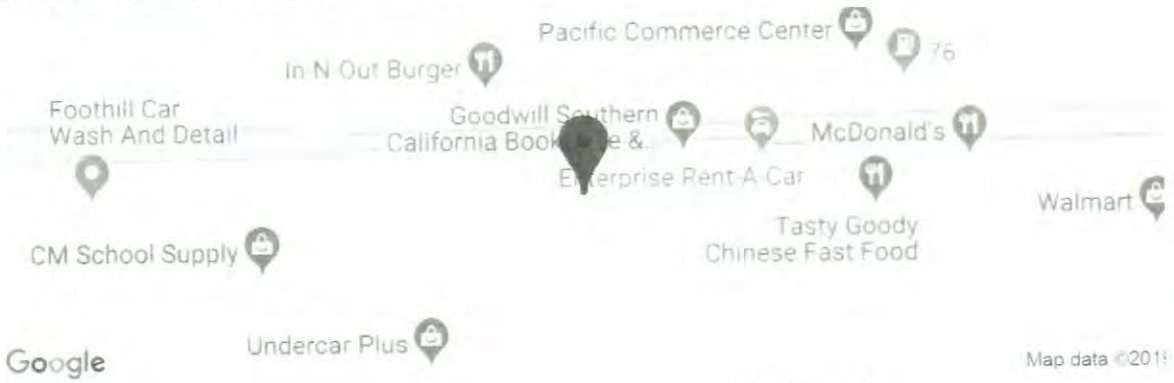
SEISMIC DESIGN PARAMETERS - 2016 CBC
PROPOSED WAREHOUSE
UPLAND, CALIFORNIA

DRAWN: JH
CHKD: RGT
SCG PROJECT 19G216-1
PLATE E-1A

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

OSHPD

Latitude, Longitude: 34.106236, -117.685096



Date	10/16/2019, 1:00:17 PM
Design Code Reference Document	ASCE7-16
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.694	MCE_R ground motion. (for 0.2 second period)
S_1	0.637	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.694	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.129	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

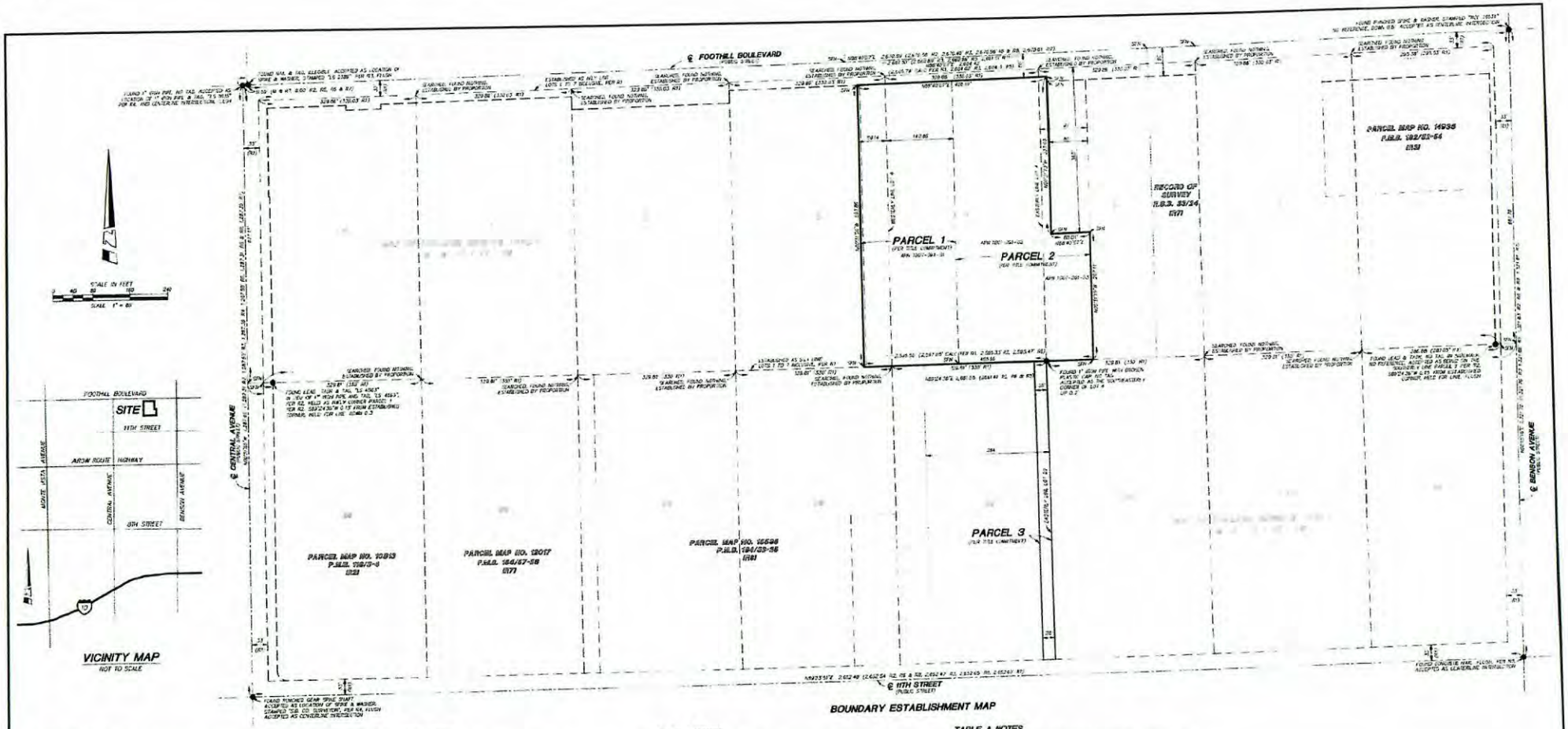
Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.719	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.791	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.694	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.822	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.072	Factored deterministic acceleration value. (0.2 second)
S1RT	0.637	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.698	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.675	Factored deterministic acceleration value. (1.0 second)
PGAd	0.851	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.93	Mapped value of the risk coefficient at short periods
C_{R1}	0.913	Mapped value of the risk coefficient at a period of 1 s

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

SEISMIC DESIGN PARAMETERS - 2019 CBC
PROPOSED WAREHOUSE
UPLAND, CALIFORNIA

DRAWN: JH
CHKD: RGT
SCG PROJECT 19G216-1
PLATE E-1B

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



VICINITY MAP
NOT TO SCALE

BOUNDARY ESTABLISHMENT MAP

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF UPLAND, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1:
THE EASTERLY 59.14 FEET OF LOT 5, AND THE WESTERLY 140.86 FEET OF LOT 4, COLLEGE HEIGHTS TRACT, IN THE CITY OF UPLAND, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER PLAT RECORDED IN BOOK 17 OF MAPS, PAGE 77, RECORDS OF SAID COUNTY.

EXCEPTING THEREFROM THAT PORTION LYING WITHIN MESA AVENUE OR FOOTHILL BOULEVARD, NOW 100 FEET WIDE.

PARCEL 2:
LOT 4 AND THE WESTERLY 97 FEET OF LOT 3, COLLEGE HEIGHTS TRACT, IN THE CITY OF UPLAND, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AS PER PLAT RECORDED IN BOOK 17 OF MAPS, PAGE 77, RECORDS OF SAID COUNTY.

EXCEPTING THEREFROM THE WESTERLY 140.86 FEET OF SAID LOT 4.

ALSO EXCEPTING THAT PORTION WITHIN MESA OR FOOTHILL BLVD., NOW 100 FEET WIDE.

ALSO EXCEPTING THE NORTH 350 FEET OF THE LAST 80 FEET OF THE WEST 97 FEET OF SAID LOT 3.

PARCEL 3:
EASEMENTS FOR SEWER AND STORM DRAIN PURPOSES AS CREATED BY DOCUMENT ENTITLED "GRANT OF EASEMENT", RECORDED DECEMBER 28, 2007 AS INSTRUMENT NO. 2007-0717154 OF OFFICIAL RECORDS.

SURVEY NOTES

1. BASIS OF BEARINGS: BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN O.C.S. HORIZONTAL CONTROL STATION GPS NO. EMPP AND STATION GPS NO. UCRS BEING NORTH 89°39'38"WEST
2. ASSESSOR'S PARCEL NO = 1007-031-08, 1007-091-02 AND 1007-091-03 (ASSESSOR'S PARCEL NUMBERS SHOWN HEREON ARE PER THE CURRENT TAX ASSESSOR'S ROLLS AS PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY)
3. DATE OF FIELD SURVEY: OCTOBER 23, 2019
4. LANDSCAPED AREAS MAY CONTAIN IRRIGATION SPRINKLER SYSTEMS

SPECIAL NOTE

1. THE BUILDING AT 1780 FOOTHILL BOULEVARD ENCROACHES INTO EASEMENT ITEMS 14 AND 15.

(ITEM NOTED ABOVE REPRESENT A SPECIFIC ISSUES THE SURVEYOR WANTS TO BRING TO THE ATTENTION OF ALL PARTIES USING THIS SURVEY. ADDITIONAL ISSUES OF CONCERN NOT NOTED ABOVE BUT SHOWN ON THE SURVEY MAY EXIST.)

TITLE REPORT INFORMATION

ITEM NUMBERS AND LEGAL DESCRIPTION SHOWN HEREON CORRESPOND TO FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT FOR TITLE INSURANCE NO. NCS-979277-LA2, DATED OCTOBER 31, 2019, REVISION NO. 2

NO RESPONSIBILITY FOR COMPLETENESS, ACCURACY OR CONTENT OF SAID COMMITMENT IS ASSUMED BY THIS MAP

ITEM NUMBERS INDICATED WITH A HEXAGON (⬡) REFLECT ITEMS WHICH ARE PLOTTED HEREON

1 a STANDARD TITLE COMPANY NOTE
1 b TAXES
8 THE LIEN OR SUPPLEMENTAL TAXES, IF ANY
9 THIS ITEM HAS BEEN INTENTIONALLY DELETED
10 THIS ITEM HAS BEEN INTENTIONALLY DELETED
11 AN EASEMENT FOR PIPE LINE PURPOSES RECORDED SEPTEMBER 27, 1899 IN BOOK 273, PAGE 128, OF DEEDS (NOT LOCATABLE FROM RECORD)
12 AN EASEMENT FOR PIPE LINE PURPOSES IN FAVOR OF THE POMONA LAND AND WATER COMPANY RECORDED JULY 12, 1907 IN BOOK 393, PAGE 282, OF DEEDS (CONTAINS A RESERVATION FOR WATER PIPELINES, NOT LOCATABLE FROM RECORD)
13 THIS ITEM HAS BEEN INTENTIONALLY DELETED
(14) AN EASEMENT FOR PUBLIC UTILITY PURPOSES IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY, RECORDED MAY 19, 1965 AS INSTRUMENT NO. 523 IN BOOK 6394, PAGE 102, OFFICIAL RECORDS.
(15) AN EASEMENT FOR PUBLIC UTILITY PURPOSES IN FAVOR OF THE GENERAL TELEPHONE COMPANY OF CALIFORNIA, RECORDED OCTOBER 7, 1965 AS INSTRUMENT NO. 693 IN BOOK 6488, PAGE 84, OFFICIAL RECORDS.
16 THE FACT THAT THE LAND LIES WITHIN THE BOUNDARIES OF THE REDEVELOPMENT PROJECT AREA NO. III, AS DISCLOSED BY THE DOCUMENT RECORDED DECEMBER 3, 2007 AS INSTRUMENT NO. 2007-0676580, OFFICIAL RECORDS (NOT A MATTER OF SURVEY)
17 18 A DEED OF TRUST
19-20 A FINANCING STATEMENT.
21 A DEED OF TRUST
22 A FINANCING STATEMENT.
23 STANDARD TITLE COMPANY NOTE
24 ANY CLAIM THAT THE TITLE IS SUBJECT TO A TRUST OR LIEN CREATED UNDER THE PERISHABLE AGRICULTURAL COMMODITIES ACT, 1930 OR THE PACKERS AND STOCKYARDS ACT OR UNDER SIMILAR STATE LAWS.
25 WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT SHOWN BY THE PUBLIC RECORDS.
26 RIGHTS OF PARTIES IN POSSESSION
27 MATTERS DISCLOSED BY AN ALTA/NSPS SURVEY MADE BY HUITT-ZOLLARS ON OCTOBER 23, 2019, DESIGNATED JOB NO. R311672.01

TABLE A NOTES

ITEM NUMBERS BELOW CORRESPOND TO REQUESTED 2016 ALTA/NSPS LAND TITLE SURVEY TABLE A: OPTIONAL SURVEY RESPONSIBILITIES AND SPECIFICATIONS.

2. SITE ADDRESS: 1780 AND 1790 WEST FOOTHILL BOULEVARD, UPLAND, CALIFORNIA (AS LISTED IN THE COMMITMENT FOR TITLE INSURANCE BY FIRST AMERICAN TITLE INSURANCE COMPANY)
3. THE PROPERTY SHOWN HEREON IS LOCATED WITHIN FLOOD ZONE X. FLOOD ZONE X IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN" ON FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM (FLOOD INSURANCE RATE MAP) MAP NO. 06071C8606H, NO PRINTED 8/28/2008.
4. THE PROPERTY DESCRIBED AND SHOWN HEREON CONTAINS 6.049 ACRES, MORE OR LESS.
5. AERIAL PHOTOGRAPHY WAS COMPILED BY ROBERT J. LONG & ASSOCIATES, DATED OCTOBER 4, 2019 AND COMPLIES WITH NATIONAL MAPPING ACCURACY STANDARDS

BENCH MARK: SAN BERNARDINO COUNTY BENCH MARK NO. 7-33
LOCATION: NORTHWEST CORNER OF AIRPORT DRIVE AND FOOTHILL BOULEVARD, 26.5 FEET WEST OF AIRPORT, 63 FEET NORTH OF FOOTHILL, 240 FEET WEST OF CENTRAL AVENUE, 1 FOOT FROM EAST END IN FRONT OF LIGHT STAND
ELEVATION: 1345.9128

6. TABLE A ITEM 6(a) WAS REQUESTED BY THE CLIENT AND PER THE MARCH 24 STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS" ZONING INFORMATION IS TO BE "PROVIDED TO THE SURVEYOR BY THE CLIENT" IN A ZONING REPORT OR LETTER.

ZONING INFORMATION WAS REQUESTED FROM THE CLIENT AND WAS NOT PROVIDED, THEREFORE TABLE A, ITEM 6(a) HAS BEEN REMOVED FROM THE SURVEYOR'S CERTIFICATE.

ZONING INFORMATION SHOWN WAS OBTAINED FROM THE CITY OF UPLAND PLANNING DEPARTMENT WEBSITE.

ZONING INFORMATION: C/I—MU COMMERCIAL/INDUSTRIAL MIXED-USE

7. BUILDING DIMENSIONS AND SQUARE FOOTAGES SHOWN HEREON ARE BASED ON MEASUREMENTS AROUND THE EXTERIOR FOOTPRINT OF THE BUILDING AT GROUND LEVEL, AND DO NOT REPRESENT USEABLE FLOOR AREA.
8. SEE SHEET 2 FOR ALL OBSERVED SUBSTANTIAL ONSITE SURFACE FEATURES
9. NO STRIPING EXISTS AND NO COUNT FOR SAID PARKING IS SHOWN HEREON
10. THERE ARE NO DIVISION OR PARTY WALLS WITH RESPECT TO ADJOINING PROPERTIES.
11. UTILITIES SHOWN HEREON ARE FROM OBSERVED EVIDENCE ONLY. UNDERGROUND UTILITIES WERE NOT LOCATED AND UNDERGROUND UTILITY MARKINGS WERE NOT PERFORMED
13. ADJOINING OWNER INFORMATION PROVIDED BY FIRST AMERICAN TITLE INSURANCE COMPANY

TABLE A NOTES

14. SEE BOUNDARY ESTABLISHMENT MAP FOR NEAREST INTERSECTING STREET
16. THERE IS NO EVIDENCE OF CURRENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK
18. THERE ARE NO DELINEATION MARKERS OR WETLANDS OBSERVED ON THE SUBJECT PROPERTY
19. THERE IS AN OFFSITE APPURTENANT EASEMENT LISTED IN THE TITLE COMMITMENT AND ITS SHOWN AS PARCEL 3 OF THE LEGAL DESCRIPTION
20. HUITT-ZOLLARS IS FULLY INSURED REGARDING PROFESSIONAL LIABILITY AND CERTIFICATES OF INSURANCE ARE AVAILABLE UPON REQUEST

REFERENCES

R1 MAP OF COLLEGE HEIGHTS TRACT, M.B. 17/77-78
R2 PARCEL MAP NO. 10813, P.M.B. 110/3-4
R3 PARCEL MAP NO. 14938, P.M.B. 182/52-54
R4 PARCEL MAP NO. 17945, P.M.B. 278/48-49
R5 RECORD OF SURVEY, R.S.B. 143/24
R6 PARCEL MAP NO. 12017, P.M.B. 154/54-58
R7 RECORD OF SURVEY, R.S.B. 33/24
R8 PARCEL MAP NO. 16598, P.M.B. 194/33-36

MONUMENT NOTES

● FOUND MONUMENT AS NOTED

LEGEND

SFN SEARCHED FOUND NOTHING

SURVEYOR'S CERTIFICATE

TO: OAKMONT INDUSTRIAL GROUP, FOOTHILL BOULEVARD ADDITIONAL OWNER L.P., A DELAWARE LIMITED PARTNERSHIP, AND FIRST AMERICAN TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 6, 7(a), 7(b)(1), 7(c), 8, 9, 10, 11, 13, 14, 16, 18, 19 AND 20 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON OCTOBER 23, 2019.

RUSSELL W. HANSON, L.S. 8875
DATE OF CERTIFICATION: OCTOBER 29, 2019

RUSSELL W. HANSON NO. 8875

DATE OF REVISION: NOVEMBER 15, 2019
REVISED TO REFLECT CURRENT TITLE COMMITMENT

A.L.T.A./N.S.P.S. LAND TITLE SURVEY FOR

OAKMONT INDUSTRIAL GROUP

3520 PIEDMONT ROAD SUITE 100
ATLANTA, GA 30305

FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT FOR TITLE INSURANCE NO. NCS-979277-LA2, DATED OCTOBER 31, 2019, REVISION NO. 2

HUITT-ZOLLARS INC.
Huitt-Zollars, Inc.
2603 Main Street, Suite 400, Irvine, California 92614
Phone (949) 988-5815 Fax (949) 988-5820
irvine@huitt-zollars.com

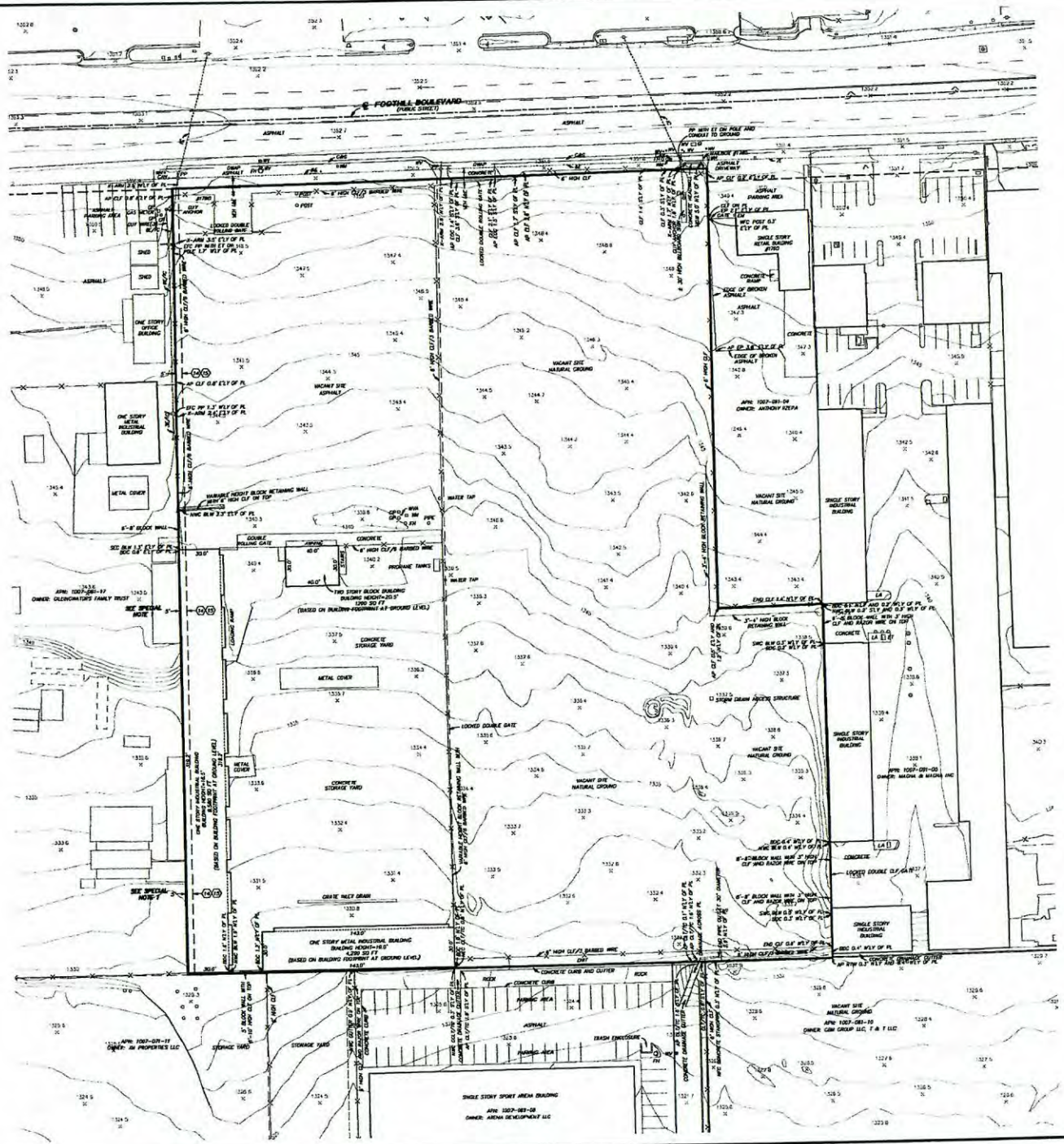
QUALITY CONTROL REVIEW

RUSSELL W. HANSON, L.S. 8875 EXPIRES: 9/30/2020
DATE: 10/29/2019

SHEET 1 OF 2 SHEETS
DRAWN BY: JMH
JOB NO. R311672.01

O:\R311672.01\CADD & BIM\MAPPING\DWG\ALTA\311672.01ALSC.DWG

OAKMONT INDUSTRIAL GROUP / 1780 FOOTHILL BOULEVARD / UPLAND, CA


FOOTHILL BOULEVARD
(PUBLIC STREET)
ASPHALT
SCALE IN FEET
SCALE: 1" = 30'
LEGEND
AP ANGLE POINT
APN ASSESSOR'S PARCEL NUMBER
BDC BUILDING CORNER
BLW BLOCK WALL
CAN CANISTER
C&G CONCRETE CURB AND GUTTER
CLF CHAIN LINK FENCE
CLT CHANNEL LINING TOP
DWAP DRIVEWAY APRON
E/LY EASTERLY
EOC EDGE OF CONCRETE
EM ELECTRIC METER
EP EDGE OF ASPHALT PAVEMENT
ET ELECTRICAL TRANSFORMER
FH FIRE HYDRANT
G GRATE INLET
GP GUARD POST
HDW CONCRETE HEAD WALL
LA LANDSCAPE AREA
N/LY NORTHERLY
NEC NORTHEAST CORNER
NWC NORTHWEST CORNER
PL PROPERTY LINE
PP POWER POLE
RTW RETAINING WALL
S/LY SOUTHERLY
SEC SOUTHEAST CORNER
SWC SOUTHWEST CORNER
TC TOP OF CURB
VEH I&E VEHICULAR INGRESS AND EGRESS
X-ARM CROSS-ARMS
W/FC WEST FACE
W/LY WESTERLY
WM WATER METER
WV WATER VALVE
WVA WATER VALVE ASSEMBLY
OVERHEAD WIRES
OE OVERHEAD ELECTRICAL WIRES
OC OVERHEAD COMMUNICATION WIRES
SEE SHEET 1 FOR LEGAL DESCRIPTION, TITLE REPORT INFORMATION, BASIS OF BEARINGS, BOUNDARY ESTABLISHMENT MAP, MONUMENT NOTES AND SURVEYOR'S CERTIFICATE.
SHEET 2 OF 2 SHEETS
JOB NO. 5311672.01
G:\5311672.01\CADD & SW\MAPPING\DWG\AL\311672201.ALD1.DWG

SAN BERNARDINO COUNTY
FIRE DEPARTMENT

COUNTY OF SAN BERNARDINO

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

MARK A. HARTWIG
Fire Chief/Fire Warden

January 27, 2016

16012701 Upland Ral LOR

LOR GEOTECHNICAL GROUP, INC.
6121 QUAIL VALLEY COURT
RIVERSIDE, CA 92507

ATTENTION: **MATHEW L. HUNT**

SUBJECT: **CERTIFIED RECORD SEARCH FINDINGS**
1780 WEST FOOTHILL BOULEVARD, UPLAND, CALIFORNIA
APN: 1007-091-01-0000 THROUGH 1007-091-03-0000

This is to confirm that the San Bernardino County Hazardous Materials Division has identified records that may pertain to the subject site, as described in your request for records search.

The file(s) shown below have been retrieved for review. If you wish to view the original documents, please e-mail this office at mmolina@sbcfire.org or call the number at the end of this letter to arrange an appointment.

ACTIVE PERMIT FACILITIES: (Regulatory files for facilities with annual operating permits to maintain underground storage tanks, handle hazardous materials, and/or generate hazardous waste. Files include permits, inspections, reports, test results, correspondence, and related materials. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities still in operation).

No record of active permit facilities identified in this search.

INACTIVE PERMIT AND/OR NON-PERMIT FACILITIES: (Inactive regulatory files for formerly permitted facilities that maintained underground storage tanks, stored hazardous materials, and/or generated hazardous waste and/or facilities with underground storage tanks removed and/or materials and waste removed. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities no longer operating underground tanks).

Fence Craft of Upland 1780 W. Foothill Upland	Est. 86010427 Underground Storage Tank Permit Hazardous Material Handler Permit – UST Only

PERMITS TO REMOVE/INSTALL/MODIFY UNDERGROUND STORAGE TANKS:

Fence Craft of Upland 1780 W. Foothill Blvd. Upland	Issued 02/09/1990 Removal Log #021290-04 ~ Job Card #2258

GREGORY C. DEVEREAUX
Chief Executive Officer

Board of Supervisors
ROBERT A. LOVINGOOD .....First District
JANICE RUTHERFORD.....Second District
JOSIE GONZALES ..... Fifth District
JAMES RAMOS ..... Third District
GARY C. OVITT.....Fourth District

HAZARDOUS MATERIAL INCIDENT AND/OR COMPLAINT RESPONSE ACTIVITY: (other records of spill notifications and/or complaints not listed below may also exist in facility permit files).

No record of hazardous material incidents and/or complaint response activities identified in this search.

SITE REMEDIATION: (Underground Storage Tank Clean-Up under Local Oversight Program or Voluntary Hazardous Waste Clean-Up activity under Local Jurisdiction) (documents may be included in regular active or inactive permit files listed above).

No record of site remediation identified in this search.

Records searched include permit database systems for facilities with permits as hazardous waste generators, hazardous materials handlers, and/or underground storage tanks, including inactive and/or out of business records; logs of permits issued for the removal and/or installation of underground storage tanks; records and databases pertaining to illicit dumping and releases; records of non-permitted facilities; sites undergoing remediation for contaminated soil and/or groundwater; and incidents responded to by the hazardous materials emergency response team. Records searched date back to early 1980's. Please note if a facility has completed a submission in CERS, the most recent submission can be made available for review upon request.

Records consist of 1 file(s), approximately 37 pages combined. To request a file review appointment or further clarification, please contact this office (909) 386-8468 or by email to mmolina@sbcfire.org.

Michelle McClain

MICHELLE MCCLAIN
Office Specialist
Office of the Fire Marshal
Hazardous Materials Division

MM:mm

*We will copy up to forty (40) pre-selected pages from a file at a charge $0.10 per page copied. (Be prepared to make this payment at the time of service). If the copies selected exceed forty (40) pages or if you want a copy of the entire file and it exceeds forty (40) pages, we will refer you to a private copy service. If you prefer to bring a portable copier on site, you may do so. Please let us know your plans in advance so that accommodations can be made.

ENVIRONMENTAL HEALTH SERVICES

COUNTY OF SAN BERNARDINO
ENVIRONMENTAL
PUBLIC WORKS AGENCY

☑ 385 North Arrowhead Avenue • San Bernardino, CA 92415-0160 • (714) 387-4646
☐ 320 East "D" Street • Ontario, CA 91764 • (714) 391-7570
☐ 15505 Civic Drive • Victorville, CA 92392 • (619) 243-8141
☐ 17830 Arrow Highway • Fontana, CA 92335 • (714) 829-6244
☐ 57407 Twentynine Palms Highway • Yucca Valley, CA 92284
☐ San Bernardino County Vector Control Program
2355 East Fifth Street • San Bernardino, Ca 92415 • (714) 383-3200
☐ Environmental Enforcement and Housing
172 West Third Street • San Bernardino, CA 92415-0315 • (714) 387-6512/6515
☐ Air Pollution Control District
15428 Civic Drive, Suite 200, Victorville, CA 92392 • (619) 243-8200

PAUL F. RYAN, R.E.H.S.
Director

Also serving the cities of:

Adelanto	Loma Linda
Apple Valley	Montclair
Barstow	Needles
Big Bear Lake	Ontario
Chino	Rancho Cucamonga
Colton	Redlands
Fontana	Rialto
Grand Terrace	San Bernardino
Hesperia	Twentynine Palms
Highland	Upland

Victorville

March 27, 1990

FENCECRAFT OF UPLAND
1780 W. Foothill Blvd.
Upland, CA 91786

SUBJECT: UNDERGROUND STORAGE TANK REMOVAL AT 1780 W. FOOTHILL BLVD., UPLAND.

This Department has reviewed the reports submitted on March 26, 1990 by Calscience Environmental Labs, for the above facility. The results indicate that the amount of contamination is below that which is generally considered a problem and further investigation is not warranted at this time.

It is important to note that this does not constitute a releasing of liability for any remaining contamination or contamination not detected. Should site conditions alter, the Department may require further investigation and remedial action.

If you have any questions, please call at (714) 387-3080.

Jane A. Miller

JANE A. MILLER, EHT III
HAZARDOUS MATERIALS FIELD SERVICES

JAM:tlb

Fence Craft of Upland, Inc.

1190 WEST FOOTHILL BLVD
UPLAND, CALIFORNIA 91786

Form Approved OMB No. 2050-0039 (Expires 9-30-)

Please print or type (Form designed for use on elite (pica typewriter)

Department of Health Servi
Toxic Substances Control Divi
Sacramento, Califo

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. CACODDDDDDDDDD

Manifest Document No.

2 Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address

Fence Craft of Upland Inc.
1730 W. Foothill, Upland, CA 917
4. Generator's Phone (714) 981-7095

5. Transporter 1 Company Name

Containerized Chemical Disposal

6. Transporter 2 Company Name

7. Designated Facility Name and Site Address

DeMenno Kerdoon
2000 N. Alameda Street
Compton, CA 90222

A. State Manifest Docu 9005

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone (213) 537-3705

9. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

10. Containers: No. 6, Type DM

11. Total Quantity 660

12. Unit Wt./Vol. P

13. Waste No.

14. Special Handling Instructions and Additional Information

15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

Signature

Month Day Year

16. International Shipments

Import to US

Export from US

Port of entry/exit:

17. Transporter Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space

18b. Alternate Facility (or Generator)

18c. Signature

Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 18a

Printed/Typed Name

Signature

Month Day Year

Do Not Write Below This Line

IN CASE OF AN EMERGENCY OR SPILL CALL THE NATIONAL RESPONSE CENTER (800-424-8802 WITHIN CALIFORNIA CALL 1-800-852-7550)

GENERATOR

TRANSPORTER

FACILITY

DHS 8022 A (1/88)
EPA 8700-22
(Rev. 9-88) Previous editions are obsolete.

ORIGINAL - RETURN TO GENERATOR

Envirosciences
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

Date Sampled: 03/20/9
Date Received: 03/20/9
Date Extracted: 03/20/9
Date Analyzed: 03/21/9
EPA Batch No.: 90 03 08

Attn: Francis Pasquale
RE: Fence Craft of Upla

All concentrations are reported in ug/kg (ppb).

	Concentration	Det. Limit
Sample Number: 1		
Benzene	ND	50
Toluene	ND	50
Chlorobenzene	ND	50
Ethylbenzene	ND	50
Total xylenes	ND	50
1,2 Dichlorobenzene	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	ND	50
Sample Number: 2		
Benzene	ND	50
Toluene	ND	50
Chlorobenzene	ND	50
Ethylbenzene	ND	50
Total xylenes	ND	50
1,2-Dichlorobenzene	ND	50
1,3-Dichlorobenzene	ND	50
1,4-Dichlorobenzene	ND	50

Reviewed and Approved
Steven Lee
Laboratory Director

ND denotes not detected at indicated limit

Each sample was received by ENVI... a chilled state, intact and with chain-of-custody attached.

11131 Seaboard Circle Stanton CA 90680 • TEL (714) 895-5494 • FAX

Calscience
Environmental
Laboratories, Inc.

ANALYTICAL REPORT

Contractor: 2000 Chemical [illegible]
10980 Silicon Avenue
Montclair, CA

Date Sampled: 03/20/9
Date Received: 03/20/9
Date Extracted: 03/22/9
Date Analyzed: 03/22/9
QC Batch No.: 90-03-08

Attn: Francis Passarelli
RE: Fonco Craft of LA Airport

Method: EPA 80[illegible]

Concentrations are reported in mg/kg (ppm) as gasoline and diesel constituents.

Sample Number | Concentration | Detection Limit

[illegible]

Approved and Released:
Steven Kong
Laboratory Director

EPA - 15M is conducted in accordance with the DHS Work Plan
Note: Petroleum Hydrocarbons

ND denotes not detected at indicated detection limit.

Each sample was received by CEL in a chilled state, intact and with chain of custody attached.

11631 Seaboard Circle Stanton, CA 90680 * [illegible] 893-3491 * FAX [illegible]

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
11631 SEABOARD CIRCLE
STANTON, CA 90680
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date: 3-20-90
Page: 1 of 1

LABORATORY CLIENT: Centaur Engineering
ADDRESS: 1640 S. Sherman
CITY: Montclair STATE: Ca
TEL: 714-625-4045
TURN AROUND TIME DESIRED: ☐ SAME DAY 100% ☐ 24 HOUR (50%)
SHIPMENT METHOD: RETURNED TO CLIENT ☐ OTHER
SPECIAL INSTRUCTIONS:

SAMPLE ID	LOCATION DESCRIPTION	SAMPLED DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	TESTS REQUESTED
							EDB & 8020
							BTEX 8020

Relinquished by: (Signature) Tom Kennedy	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by Laboratory by: (Signature) Richard Mitchell	Date 3-20-90	Time 12:15

* The report will be forwarded to this address

SAN BERNARDINO COUNTY - DEHS
HAZARDOUS MATERIALS FIELD SERVICES PROGRAM
UNDERGROUND STORAGE TANK REMOVAL
INSPECTION FORM

Date: 20 Mar 90 Time: 10:00

Facility Name: Fencecraft

Location: 1780 W. Foothill Blvd.

Contractor: Fencecraft

	Quantity	Hauler	Method	Destination	PPM
Triple Rinsate:	100	Griffin Chem.	T.T.	Demenno Kerdoon	
Tanks:	1	AMR	T.T.	AMR	N/A
Contaminated soil:					

Manifest #: 9005207 Dry Ice Used (10-15 lb/1000 gal): 40 lbs

	Tank#	Size	Material held	UL#	Appearance (sound, rusty, etc)
1.	1	1950	unleaded	UNK.	sound
2.					
3.					
4.					
5.					

	Sample#	Date	Sample description (color/odor)	Location	Depth	Results
1.	#1	20 Mar 90	brown, none	East E.	12'	
2.	#2	20 Mar 90	brown, none	WEST	12'	
3.						
4.						
5.						

Taken By: Fencecraft Laboratory: Cal Science

Container: glass Refrigeration: yes Headspace: NO

Splits: NO Labels: YES Seals:

Chain of custody: yes EPA Test #s Requested: 8015 + 8020

Gasoline: 8015, 8020, 7420 (Pb); Diesel: 418.1 or 8015

Solvents: 8010; Waste Oil: 418.1 + 7030 (Cd), 7190 (Cr), 7950 (Zn), 7420 (Pb), 7080 (As), 8080 (PCBs)

Inspectors: AQMD: _____ _____

FIRE: _____

OTHER: _____

FORMS COMPLETED:	DATE COMPLETED:
1. Unauthorized Release Form	_____
2. Log Sheet (for site mitigations)	_____
3. Proposition 65 Report	_____
4. "Order to Investigate" Letter	_____
5. Adjustment to APBS	_____
6. SWEEPS (Forms A and B)	_____

SCAQMD REFERENCE # _____

1166 situation reported (describe in detail): _____

_____

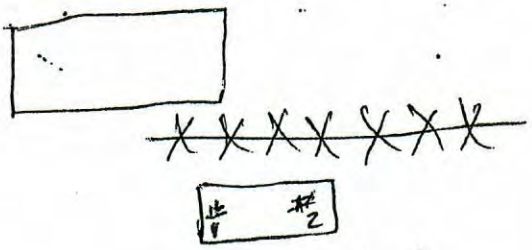
_____

Date	Time	Person Contacted
_____	_____	_____

SCAQMD PHONE NUMBERS

(818) 572-6195 (800) 572-6306

MAP OF FACILITY (indicate where samples were taken)



J Miller
INSPECTOR

20 Mar 90
DATE

DISPOSAL CONTROL SERVICE, INC.

1369 W. 9th STREET, UPLAND, CALIFORNIA 91786
(800) 824-3345 (714) 983-0342

May 8, 1986

TESTED FOR: Fencecraft
1780 W. Foothill Blvd.
Upland, CA.

CONTACT: Pat

TANK SIZE AND PRODUCT: 2,000 Gallons
Unleaded Gasoline

On site 10:30 A.M. 5-1-86. Began setting up. Ran out of gas while topping off, customer had to get 25 gallons of gas to finish topping off. Had to by pass pump due to a leak at the pump and product line. At 12:40 p.m. began high level testing, at 2:10 p.m. completed high level testing. At 2:25 p.m. began low level testing, at 3:25 p.m. low level testing completed.

A product gain of .047 gallons per hour was detected which is within the ±.050 gallons per hour as established by the NFPA. The testing data indicates the presence of air vapor in the tank, possibly because the tank may be setting at an angle.

Bill R. Lewis
#A14811175

14. Faroekett — 1780 Tooth Hill Blvd. — Upland — Ca. — 5-1-96
Name of Supplier, Owner or Dealer | Address No. and Street(s) | City | State | Date of Test

15. TANK TO TEST
Northwest Corp
Identity by position
Unleaded 1 Gasol.
Brand and Grade

16. CAPACITY
Nominal Capacity 2000 Gallons
By most accurate capacity chart available 2000 Gallons.
Is there doubt as to True Capacity? ☐
See Section "DETERMINING TANK CAPACITY".
From
☐ Station Chart
☐ Tank Manufacturer's Chart
☐ Company Engineering Data
☐ Charts supplied with petro Tite TANK TESTER
☑ Other Verbal

17. FILL-UP FOR TEST
Stick Water Bottom before Fill-up 0 " to ⅛ in. 0 Gallons

Fill up. STICK BEFORE AND AFTER EACH COMPARTMENT DROP OR EACH METERED DELIVERY QUANTITY

	Stick Readings to ⅛ in.	Gallons	Total Gallons ea. Reading
Inventory	Tank		2000
	WATER		0
	T.W.		6
			2006

Tank Diameter
Product in full tank (up to fill pipe)

18. SPECIAL CONDITIONS AND PROCEDURES TO TEST THIS TANK
See manual sections applicable. Check below and record procedure in log (26).
API observed gravity 54.4 @ 77° F
Temp adj API gravity 52.4
☐ Water in tank ☐ High water table in tank excavation ☐ Line(s) being tested with LVLLT

VAPOR RECOVERY SYSTEM
☐ Stage I
☐ Stage II

19. TANK MEASUREMENTS FOR TSTT ASSEMBLY
Bottom of tank to Grade* ..... 117 "
Add 30" for 4" L ..... "
Add 24" for 3" L or air seal ..... "
Total tubing to assemble Approximate ..... "

20. EXTENSION HOSE SETTING
Tank top to grade* ..... "
Extend hose on suction tube 6" or more below tank top ..... "

*If Fill pipe extends above grade, use top of fill.

21. TEMPERATURE/VOLUME FACTOR (a) TO TEST THIS TANK
Is Today Warmer? [ ] Colder? [ ] ___° F Product in Tank ___° F Fill-up Product on Truck ___° F Expected Change (+ or −)

22. Thermal-Sensor reading after circulation 16582 digits 72/73 Nearest °F

23. Digits per °F in range of expected change 323 digits

24. 2006 total quantity in full tank (16 or 17) × .00055964 coefficient of expansion for involved product = 1.1226378 volume change in this tank per °F (.0035) gallons

25. 1.1226378 volume change per °F (24) ÷ 323 Digits per °F in test Range (23) = .00347565 Volume change per digit. Compute to 4 decimal places. This is test factor (a)

26. LOG OF TEST PROCEDURES			30. HYDROSTATIC PRESSURE CONTROL		31. VOLUME MEASUREMENTS (V) RECORD TO .001 GAL.			34. TEMPERATURE COMPENSATION USE FACTOR (a)			38. NET VOLUME CHANGES EACH READING	39. ACCUMULATED CHANGE
27. DATE / TIME (24 hr.)	28. Record details of setting up and running test. (Use full length of line if needed.)	29. Reading No.	Standpipe Level in Inches: Beginning of Reading	Standpipe Level in Inches: Level to which Restored	32. Product in Graduate: Before Reading	Product in Graduate: After Reading	Product Replaced (−) / Product Recovered (+)	35. Thermal Sensor Reading	36. Change Higher + Lower − (c)	37. Computation (c) × (a) = Expansion + Contraction −	Temperature Adjustment / Volume Minus Expansion (+) or Contraction (−) #33(V) − #37(T)	At High Level record Total End Deflection / At Low Level compute Change per Hour (NFPA criteria)
10:32	ON site began Set up. had to add a nipple to connect to tank pump leaks, had to bypass pump											

petro Tite TANK TESTER
HEATH CONSULTANTS
100 TOSCA DRIVE
P.O. BOX CS-200
STOUGHTON, MA. 02072-1591
(617) 344-1400

UGST PERMIT(S) CANNOT BE PROCESSED WITHOUT A COMPLETED APPLICATION FOR EACH TANK.

THIS FORM MUST BE RETURNED WITH YOUR REMITTANCE

Department of Environmental Health Services
Hazardous Waste & Toxics Control
385 N. Arrowhead Avenue
San Bernardino, CA 92415-0160

STATE ID NUMBER

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

( ) 01 NEW PERMIT (XX) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE)
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER

NAME(CORPORATION,INDIVIDUAL OR PUBLIC AGENCY)		PUBLIC AGENCY ONLY	
FenceCraft of Upland, Inc.		( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL	
STREET ADDRESS: 1780 W. Foothill Blvd.	CITY: Upland	STATE: CA	ZIP: 91786

II FACILITY

FACILITY NAME		DEALER/FOREMAN/SUPERVISOR	
Fence Craft of Upland, Inc.		Patrick W. Keeney	
STREET ADDRESS: 1780 W. Foothill Blvd.		NEAREST CROSS STREET: Central Ave.	
CITY: Upland		COUNTY: SAN BERNARDINO	ZIP: 91786
MAILING ADDRESS: 1780 W. Foothill Blvd.	CITY: Upland	STATE: CA	ZIP: 91786
PHONE W/AREA CODE: (714) 981-7095	TYPE OF BUSINESS: ( ) 01 GASOLINE STATION (XX) 02 OTHER		
NUMBER OF CONTAINERS: ONE	RURAL AREAS ONLY: TOWNSHIP	RANGE	SECTION

III 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE	NIGHTS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE
Mr. Spears, James (714) 981-7095	Mr. Spears, James (714)985-1327

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION

A. (X) 01 TANK ( ) 04 OTHER:	CONTAINER NUMBER: 7638-84 SFS
B. MANUFACTURER (IF APPROPRIATE): Hanson	YEAR MFG: '74 C. YEAR INSTALLED ( ) UNKNOWN
D. CONTAINER CAPACITY: 2000 GALLONS (X) UNKNOWN	E. DOES THE CONTAINER STORE: ( ) 01 WASTE (XX) 02 PRODUCT
F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (XX) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES): (XX) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL ( ) 05 WASTE OIL ( ) 06 OTHER	

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: ( ) GAUGE ( ) INCHES ( ) CM (X) UNKNOWN

B. ( ) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) (X) 02 NON-VAULTED ( ) 03 UNKNOWN

C. ( ) 01 DOUBLE WALLED (X) 02 SINGLE WALLED ( ) 03 LINED

D. ( ) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE
( ) 06 ALUMINUM (X) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
( ) 12 UNKNOWN ( ) 13 OTHER:

HSC84-070185

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
(X) 07 UNLINED ( ) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING ( ) 03 CATHODIC PROTECTION ( ) 04 UNKNOWN ( ) 05 NONE
(X) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN (X) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE (X) 05 SUCTION ( ) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

(X) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST ( ) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-F YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CASE (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (X) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)	PHONE W/AREA CODE
James H Spears	(714) 981-7095

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY	CITY CODE	COUNTY CODE
CONTACT PERSON	PHONE W/AREA CODE	

DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

re Agency _____

Submit to:
San Bernardino County Department of Environmental Health Services
385 North Arrowhead, San Bernardino, CA 92415-0160

APPLICATION FOR REMOVAL OF UNDERGROUND STORAGE TANK

FEE:
$ 300.00 First Tank
$ 100.00 Each Additional Tank

Date 2/9/90

JOB LOCATION

Facility Name or Contact Person Fence Craft of Upland, Inc. — *Phone No.* (714) 981-7095
Situs Address 1780 W. Foothill Blvd.
City Upland, — *State* Ca. — *Zip Code* 91786

CONTRACTOR

Name Fence Craft of Upland, Inc. — *Phone No.* (714) 981-7095
Mailing Address 1780 W. Foothill Blvd.
City Upland — *State* Ca. — *Zip Code* 91786

OWNER

Name Fence Craft of Upland, Inc. — *Phone No.* (714) 981-7095
Mailing Address 1780 W. Foothill Blvd.
City Upland — *State* Ca. — *Zip Code* 91786

TANK DATA

Construction	Size	Contents	U.L. Number
Steel Gas Tank	1,950 ga.	Supreme Unleaded Gas	Unknown
Underground, with			
Submerged fill.			

Workman's Comp. Carrier and Policy No. Liberty Mutual-WC2-161-031468-019

Water Sewer Agency _____

NOTE: The State of California has determined that tanks used for the storage of any hazardous or flammable substance shall be considered hazardous even if all contents have been removed.

All storage tanks shall be hauled as hazardous waste, accompanied by a state hazardous waste manifest, and taken to a licensed treatment, storage and disposal facility (TSDF); or if the tanks are triple rinsed on site and the rinsate manifested and hauled to a licensed TSDF, the tank may be handled as nonhazardous.

For information on licensed TSDF's that can accept nonrinsed tanks contact the State of California Department of Health Services, Toxic Substance Control at (213) 620-2380.

Signature James F. Spears

Date 2/9/90

Est. # 86010427

All fees are current

03-17445-631

(65) **OFFICE USE ONLY**

Amount 300.00
Check No. 5434
Date Paid Feb 9, 1990
Taken By Traci/Mail
Log No. 021290-04
Job Card Issued: No. 2258

County of San Bernardino
DEPARTMENT OF ENVIRONMENTAL HEALTH SERVICES
385 North Arrowhead Avenue, San Bernardino, CA 92415-0160 • (714) 387-3080

LOG # 021290-04 **JOB CARD #** 2258

CONSTRUCTION AND/OR REMOVAL OF UNDERGROUND STORAGE FACILITY

POST THIS CARD AT JOB SITE

Site Address FENCE CRAFT OF UPLAND
1780 W. FOOTHILL BL., UPLAND

Contractor FENCE CRAFT OF UPLAND

Address/Phone No. 1780 W. FOOTHILL, UPLAND 981-7095

	Inspection Record	Approved By	Date
First Inspection	Excavation Clean, Approved Slope		
	Bedding Materials/Depth		
	Holiday Test, Tanks Set		
	Additional Requirements:		
	Do Not Backfill Until Above Approved		
Second Inspection	Tank Air Test 5 PSI/30 Minutes		
	Product Lines 75 PSI/30 Minutes		
	Product Line Containment		
	Metal Piping Wrapped		
	Additional Requirements:		
Final Inspection	Approved Fill Boxes		
	Concrete or AC Paving 12" Beyond Excavation		
	Leak Detectors/Monitors Installed/Operational		
	Lockable Fluid-Tight Access for Monitoring Points		
	Precision Test Results		
	Additional Requirements:		
	FINAL APPROVAL AND CURRENT OPERATING PERMITS MUST BE OBTAINED PRIOR TO PLACING THESE TANKS INTO SERVICE ($5,000.00 FINE FOR NONCOMPLIANCE)		
Tank Removal Inspection	Tank Removed X 1 1950	J Miller 20 Mar 90	
	Required Samples 8020, 8015, 418.1	J Miller 20 Mar 90	
	Additional Test Requirements: NONE		
	Removals **Can Not** Be Finaled Until A Copy Of The Sample Results Have Been Received And Approved By This Department.		
	Final – Approved for Backfill -- upon sample results		

Additional Requirements by Local Fire Authority:
3-26-90
Jmiller

Final Approved by Local Fire Authority:

Name: Title: Date:

FAILURE TO PROTECT AND MAINTAIN THIS CARD MAY RESULT IN JOB DELAY.
PRESERVE THIS RECORD OF INSPECTIONS.

FOR INSPECTION CALL 48 HOURS IN ADVANCE AT (714) 387-3080.

THIS PERMIT EXPIRES 6 MONTHS FROM DATE OF ISSUANCE

DISTRIBUTION: White – DEHS Copy
Yellow – APCD Copy
Green – Owner's Copy

14-16867-631 Rev. 7/89

COUNTY OF SAN BERNARDINO, CALIFORNIA

THIS PERMIT EXPIRES:
05/30/88

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
EST - 86010427 PERMIT - 860406093Z

PERMIT

NON-TRANSFERABLE

INTERIM STATUS

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - UNDERGROUND STORAGE TANKS

FEE PAID $112.00

FENCE CRAFT OF UPLAND
DBA FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

NBR TANKS - 1

Richard L. Roberts
Director
ENVIRONMENTAL HEALTH SERVICES

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

ENVIRONMENTAL HEALTH SERVICES DEPARTMENT

COUNTY OF SAN BERNARDINO, CALIFORNIA

THIS PERMIT EXPIRES:
05/30/91

FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786
EST - 86010427 PERMIT - 8702261824

PERMIT

NON-TRANSFERABLE

This permit may be suspended or revoked by the health officer for cause. This permit is granted on condition that the person named in the permit will comply with the laws, ordinances and regulations that are now or may hereafter be in force by the United States Government, the State of California and the County of San Bernardino pertaining to the above mentioned business. Penalty fees are assessed on permits renewed 30 days after expiration date indicated above, or for failure to obtain new permit in case of transfer of ownership.

TYPE OF PERMIT - UNDERGROUND STORAGE TANK STATE FEE

FEE PAID $49.80

FENCE CRAFT OF UPLAND
DBA FENCE CRAFT OF UPLAND
1780 W FOOTHILL
UPLAND, CA 91786

Richard L. Roberts
Director
ENVIRONMENTAL HEALTH SERVICES

04-1804-631 REV. 3/85

PERMIT DOES NOT IMPLY APPROVAL

POST IN A CONSPICUOUS PLACE

October 24, 2019

SOUTHERN CALIFORNIA GEOTECHNICAL

Oakmont Industrial Group
3520 Piedmont Road, Suite 100
Atlanta, Georgia 30305

Attention: Mr. John C. Atwell
Senior Vice President

Project No.: **19G216-2**

Subject: **Results of Infiltration Testing**
Proposed Warehouse
1780 West Foothill Boulevard
Upland, California

References: Geotechnical Investigation, Proposed Warehouse, 1780 West Foothill Boulevard, Upland, California, prepared for Oakmont Industrial Group, by Southern California Geotechnical, Inc. (SCG), SCG Project No. 19G216-1, dated October 23, 2019.

Dear Mr. Atwell:

In accordance with your request, we have conducted infiltration testing at the subject site. We are pleased to present this report summarizing the results of the infiltration testing and our design recommendations.

Scope of Services

The scope of services performed for this project was in general accordance with our Proposal No. 19P373, dated September 27, 2019. The scope of services included site reconnaissance, subsurface exploration, field testing, and engineering analysis to determine the infiltration rates of the onsite soils. The infiltration testing was performed in general accordance with ASTM Test Method D-3385-03, Standard Test Method for Infiltration Rate of Soils in Field Using Double Ring Infiltrometer.

Site and Project Description

The subject site is located on the south side of West Foothill Boulevard, 950± feet west of the intersection of West Foothill Boulevard and North Benson Avenue in Upland, California. The site is referenced by the street address 1780 West Foothill Boulevard. The site is bounded to the north by West Foothill Boulevard, to the east by automotive repair shops/buildings, to the south by an industrial building, and to the west by a truck/trailer storage yard. The general location of the site is illustrated on the Site Location Map, enclosed as Plate 1 of this report.

The subject site consists of several parcels which total 6.06± acres in size. The southwestern parcel is presently developed with eight (8) buildings. Six (6) of the buildings are located along the western property line and share common walls. These buildings range from 1,200 to 2,400± ft² in size. One building is located along the southern property line and is approximately 4,400 ft² in size. The last building is located in the northern portion of the southwest parcel and is

approximately 1,200 ft² in size. A metal canopy is located in the central area of the southwest parcel. The buildings are assumed to be of concrete tilt-up construction, supported on conventional shallow foundations with concrete slab-on-grade floors. The ground surface surrounding the buildings consists of Portland cement concrete pavements. The ground surface cover in the northwestern parcel consists of asphaltic concrete pavements that are in poor condition, with severe cracking throughout. The remaining areas of the site are vacant and undeveloped. The ground surface cover in the eastern parcels consist of exposed soil with sparse native grass and weed growth. A soil berm 3± feet in height is located along the southeastern property line.

Detailed topographic information was not available at the time of this report. However, based on topographic information obtained from Google Earth, the site topography ranges from 1350± feet mean sea level (msl) in the northern area of the site to 1331± feet msl in the southern area of the site. Overall site topography slopes gently downward to the south at a gradient of 3± percent. The berm in the southeastern portion of the site slopes downward to the east at a gradient of 8± percent.

Proposed Development

A conceptual site plan (Scheme B.1) for the proposed development, prepared by GAA Architects was provided to our office. Based on the site plan, the site will be developed with one new warehouse, 115,500± ft² in size, located in the central area of the site. The building will be constructed with dock-high doors located along a portion of the eastern building wall. The building will be surrounded by asphaltic concrete pavements for parking and drive lanes and Portland cement concrete pavements for the loading dock areas. Limited areas of landscape planters and concrete flatwork will be included throughout the site.

Although not indicated on the site plan provided, we understand that the proposed development will include on-site infiltration to dispose of storm water. Based on the current site layout and our experience with similar projects in the area, we assume that the infiltration system will consist of a below-grade chamber system located to the southeastern area of the site. The bottom of the chamber system is expected to extend to depths of 8 to 10± feet below the existing site grades.

Concurrent Study

SCG recently conducted a geotechnical investigation at the subject site, referenced above. As part of this study, four (4) borings were advanced to depths of 2 to 15± feet below existing site grades. Additionally, four (4) trenches were excavated to depths of 5½ to 10½± feet below the existing site grades. Asphaltic concrete pavements, 3± inches thick, were present at the ground surface at one of the boring locations and Portland cement concrete pavements, 7± inches thick, were present at the ground surface one of the other boring locations. Artificial fill soils were encountered beneath the pavements and at the ground surface at one of the boring locations and at all of the trench locations, extending to depths of 1½ to 5± feet below the existing site grades. The fill soils generally consist of medium dense to very dense silty fine sands with varying medium to coarse sands and fine to coarse gravel content with occasional cobbles and boulders. Soils classified as possible fill were encountered beneath the PCC pavements at one of the boring locations and beneath the artificial fill soils, extending to depths of 2 to 5½± feet below existing site grades. These materials generally consist of gravelly fine to coarse sands, with varying silt

content and occasional cobbles. One of the borings was terminated within the possible fill soils, at a depth of 2± feet, due to refusal on very dense cobbles. Native alluvial soils were encountered at the ground surface at the remaining trench and boring locations, and below the artificial fill and possible fill soils, extending to at least the maximum depth explored of 15± feet below existing site grades. The alluvium generally consists of dense to very dense gravelly fine to coarse sands, with occasional to extensive cobbles and boulders.

Groundwater

Free water was not encountered within any of the boring and trenches. Based on the lack of any water within the borings and trenches and the moisture contents of the recovered soil samples, the static groundwater is considered to have existed at a depth in excess of 15± feet at the time of the subsurface exploration. As part of our research, we also reviewed recent groundwater data available within the vicinity of the site. The primary reference used to determine the groundwater depths in this area is the California Department of Water Resources website, http://wdl.water.ca.gov/waterdatalibrary/. The nearest monitoring well in this database is located approximately 6,699± feet northwest of the site. Water level readings within this monitoring well indicates a high groundwater level of 247± feet (April, 2019).

Subsurface Exploration

Scope of Exploration

The subsurface exploration for the infiltration testing consisted of two (2) backhoe-excavated trenches, each extending to a depth of 8± feet below existing site grades. The trenches were logged during excavation by a member of our staff. The approximate locations of the infiltration trenches (identified as I-1 and I-2) are indicated on the Infiltration Test Location Plan, enclosed as Plate 2 of this report.

Geotechnical Conditions

Artificial fill soils were encountered at the ground surface at both of the infiltration trench locations, extending to a depth of 3± feet below the existing site grades. The fill soils generally consist of medium dense to dense silty fine to coarse sands and gravelly fine to coarse sands. The fill soils possess a disturbed, mottled appearance and contain debris including rubber, cloth, metal, glass, brick, and Asphaltic concrete fragments, resulting in their classification as artificial fill.

Native alluvium was encountered beneath the fill soils at both of the infiltration trench locations. The alluvial soils consist of very dense fine to coarse sandy gravel with extensive cobbles and occasional boulders, extending to at least the maximum depth explored of 8± feet below the existing site grades. The Trench Logs, which illustrate the conditions encountered at the infiltration test locations, are included with this report.

Infiltration Testing

We understand that the results of the testing will be used to prepare a preliminary design for the storm water infiltration system that will be used at the subject site. As previously mentioned, the

infiltration testing was performed in general accordance with ASTM Test Method D-3385-03, Standard Test Method for Infiltration Rate of Soils in Field Using Double Ring Infiltrometer.

Two stainless steel infiltration rings were used for the infiltration testing. The outer infiltration ring is 2 feet in diameter and 20 inches in height. The inner infiltration ring is 1 foot in diameter and 20 inches in height. At the test locations, the outer ring was driven 3± inches into the soil at the base of each trench. The inner ring was centered inside the outer ring and subsequently driven 3± inches into the soil at the base of the trench. The rings were driven into the soil using a ten-pound sledge hammer. The soil surrounding the wall of the infiltration rings was only slightly disturbed during the driving process.

Infiltration Testing Procedure

Infiltration testing was performed at both of the trench locations. The infiltration testing consisted of filling the inner ring and the annular space (the space between the inner and outer rings) with water, approximately 3 to 4 inches above the soil. To prevent the flow of water from one ring to the other, the water level in both the inner ring and the annular space between the rings was maintained using constant-head float valves. The volume of water that was added to maintain a constant head in the inner ring and the annular space during each time interval was determined and recorded. A cap was placed over the rings to minimize the evaporation of water during the tests.

The schedule for readings was determined based on the observed soil type at the base of each backhoe-excavated trench. Based on the existing soils at the trench locations, the volumetric measurements were made at 1-minute increments. The water volume measurements are presented on the spreadsheets enclosed with this report. The infiltration rates for each of the timed intervals are also tabulated on these spreadsheets.

The infiltration rates for the infiltration tests are calculated in centimeters per hour and then converted to inches per hour. The rates are summarized below:

Infiltration Test No.	Depth (feet)	Soil Description	Infiltration Rate (inches/hour)
I-1	8	Fine to coarse Sandy Gravel, extensive Cobbles, occasional Boulders	21.0
I-2	8	Fine to coarse Sandy Gravel, extensive Cobbles, occasional Boulders	18.6

Laboratory Testing

Moisture Content

The moisture contents for selected soil samples within the trenches were determined in accordance with ASTM D-2216 and are expressed as a percentage of the dry weight. These test results are presented on the Trench Logs.

Grain Size Analysis

The grain size distribution of selected soils collected from the base of each infiltration test trench has been determined using a range of wire mesh screens. These tests were performed in general accordance with ASTM D-422 and/or ASTM D-1140. The weight of the portion of the sample retained on each screen is recorded and the percentage finer or coarser of the total weight is calculated. The results of the grainsize analysis are presented on Plates C-1 and C-2 of this report.

Design Recommendations

Two (2) infiltration tests were performed at the subject site. As noted above, the calculated infiltration rates at the infiltration test locations are 18.6 and 21.0 inches per hour. Based on the results of Infiltration Test Nos. I-1 and I-2, we recommend an infiltration rate of 18 inches per hour be used for the design of the proposed below-grade chamber system located in the southeastern area of the site.

We recommend that a representative from the geotechnical engineer be on-site during the construction of the proposed infiltration system to identify the soil classification at the base of the chamber system. It should be confirmed that the soils at the base of the proposed infiltration system corresponds with those presented in this report to ensure that the performance of the system will be consistent with the rates reported herein.

The design of the proposed storm water infiltration system should be performed by the project civil engineer, in accordance with the City of Upland and/or County of San Bernardino guidelines. However, it is recommended that the system be constructed so as to facilitate removal of silt and clay, or other deleterious materials from any water that may enter the system. The presence of such materials would decrease the effective infiltration rates. **It is recommended that the project civil engineer apply an appropriate factor of safety. The infiltration rate recommended above is based on the assumption that only clean water will be introduced to the subsurface profile. Any fines, debris, or organic materials could significantly impact the infiltration rate.** It should be noted that the recommended infiltration rate is based on infiltration testing at two (2) discrete locations and the overall infiltration rate of the storm water infiltration system could vary considerably.

Construction Considerations

The infiltration rates presented in this report are specific to the tested locations and tested depths. Infiltration rates can be significantly reduced if the soils are exposed to excessive disturbance or compaction during construction. Therefore, the subgrade soils within proposed infiltration system areas should not be overexcavated, undercut or compacted in any significant manner. **It is recommended that a note to this effect be added to the project plans and/or specifications.**

Infiltration versus Permeability

Infiltration rates are based on unsaturated flow. As water is introduced into soils by infiltration, the soils become saturated and the wetting front advances from the unsaturated zone to the saturated zone. Once the soils become saturated, infiltration rates become zero, and water can

only move through soils by hydraulic conductivity at a rate determined by pressure head and soil permeability. The infiltration rates presented herein were determined in accordance with the ASTM Test Method D-3385-03 standard and are considered valid for the time and place of the actual test. Changes in soil moisture content will affect these infiltration rates. Infiltration rates should be expected to decrease until the soils become saturated. Soil permeability values will then govern groundwater movement. Permeability values may be on the order of 10 to 20 times less than infiltration rates. The system designer should incorporate adequate factors of safety and allow for overflow design into appropriate traditional storm drain systems, which would transport storm water off-site.

Location of Infiltration Systems

The use of on-site storm water infiltration systems carries a risk of creating adverse geotechnical conditions. Increasing the moisture content of the soil can cause the soil to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Overlying structures and pavements in the infiltration areas could potentially be damaged due to saturation of subgrade soils. **The proposed infiltration system for this site should be located at least 25 feet away from any structures, including retaining walls.** Even with this provision of locating the infiltration system at least 25 feet from the building, it is possible that infiltrating water into the subsurface soils could have an adverse effect on the proposed or existing structures. It should also be noted that utility trenches which happen to collect storm water can also serve as conduits to transmit storm water toward the structure, depending on the slope of the utility trench. Therefore, consideration should also be given to the proposed locations of underground utilities which may pass near the proposed infiltration system.

General Comments

This report has been prepared as an instrument of service for use by the client in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other design consultants to disclose information relative to the project. However, this report is not intended to be utilized as a specification in and of itself, without appropriate interpretation by the project architect, structural engineer, and/or civil engineer. The design of the infiltration system is the responsibility of the civil engineer. The role of the geotechnical engineer is limited to determination of infiltration rate only. By using the design infiltration rates contained herein, the civil engineer agrees to indemnify, defend, and hold harmless the geotechnical engineer for all aspects of the design and performance of the infiltration system. The reproduction and distribution of this report must be authorized by the client and Southern California Geotechnical, Inc. Furthermore, any reliance on this report by an unauthorized third party is at such party's sole risk, and we accept no responsibility for damage or loss which may occur. The analysis of this site was based on a subsurface profile interpolated from limited discrete soil samples. While the materials encountered in the project area are considered to be representative of the total area, some variations should be expected between trench locations and testing depths. If the conditions encountered during construction vary significantly from those detailed herein, we should be contacted immediately to determine if the conditions alter the recommendations contained herein.

This report has been based on assumed or provided characteristics of the proposed development. It is recommended that the owner, client, architect, structural engineer, and civil engineer carefully review these assumptions to ensure that they are consistent with the characteristics of the proposed development. If discrepancies exist, they should be brought to our attention to verify that they do not affect the conclusions and recommendations contained herein. We also recommend that the project plans and specifications be submitted to our office for review to verify that our recommendations have been correctly interpreted. The analysis, conclusions, and recommendations contained within this report have been promulgated in accordance with generally accepted professional geotechnical engineering practice. No other warranty is implied or expressed.

Closure

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

Respectfully Submitted,

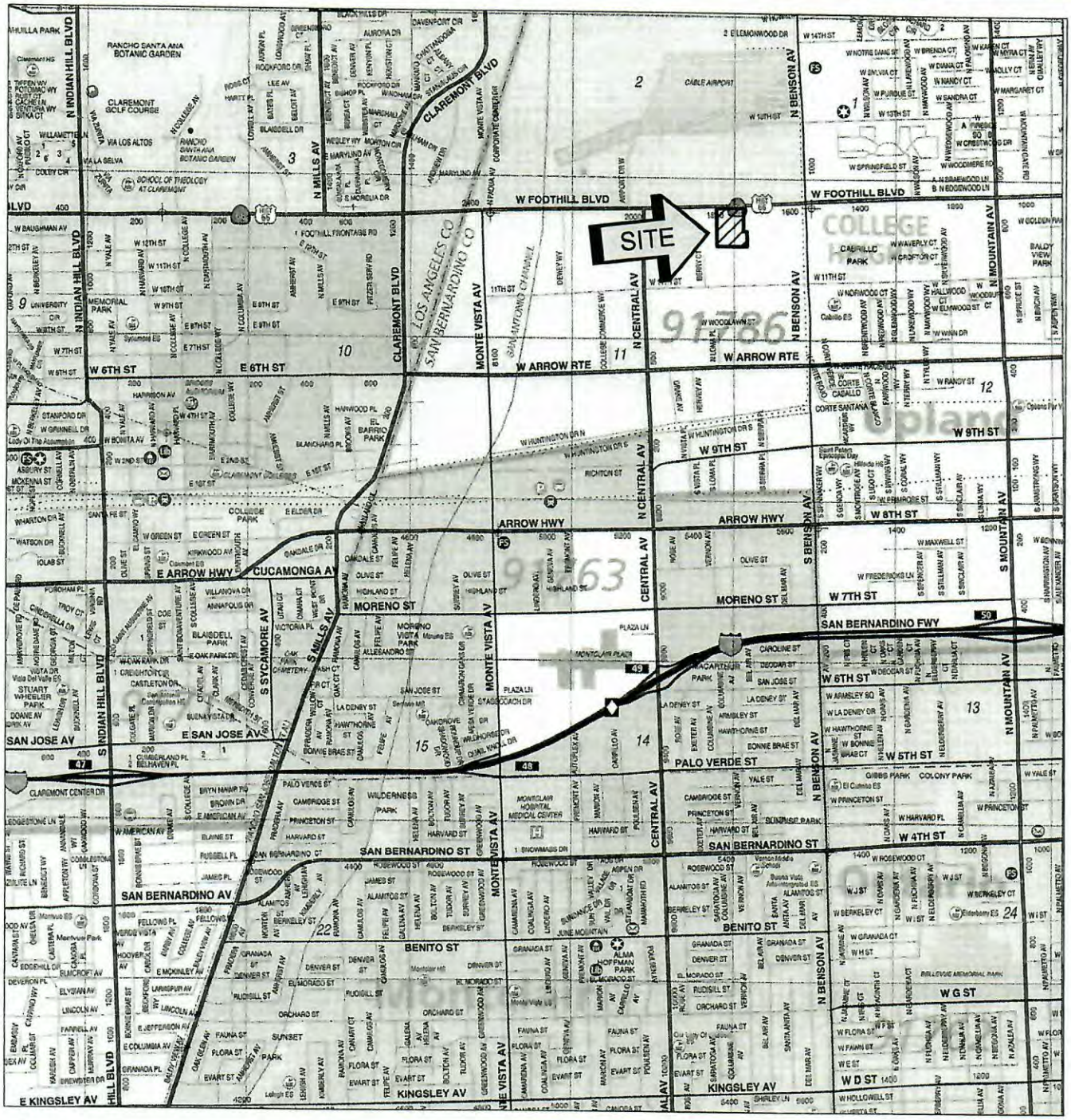
SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Scott McCann
Staff Scientist

Robert G. Trazo, GE 2655
Principal Engineer

Distribution: (1) Addressee

Enclosures: Plate 1 - Site Location Map
Plate 2 - Infiltration Test Location Plan
Trench Logs (2 pages)
Infiltration Test Results Spreadsheets (2 pages)
Grain Size Distribution Graphs (2 pages)

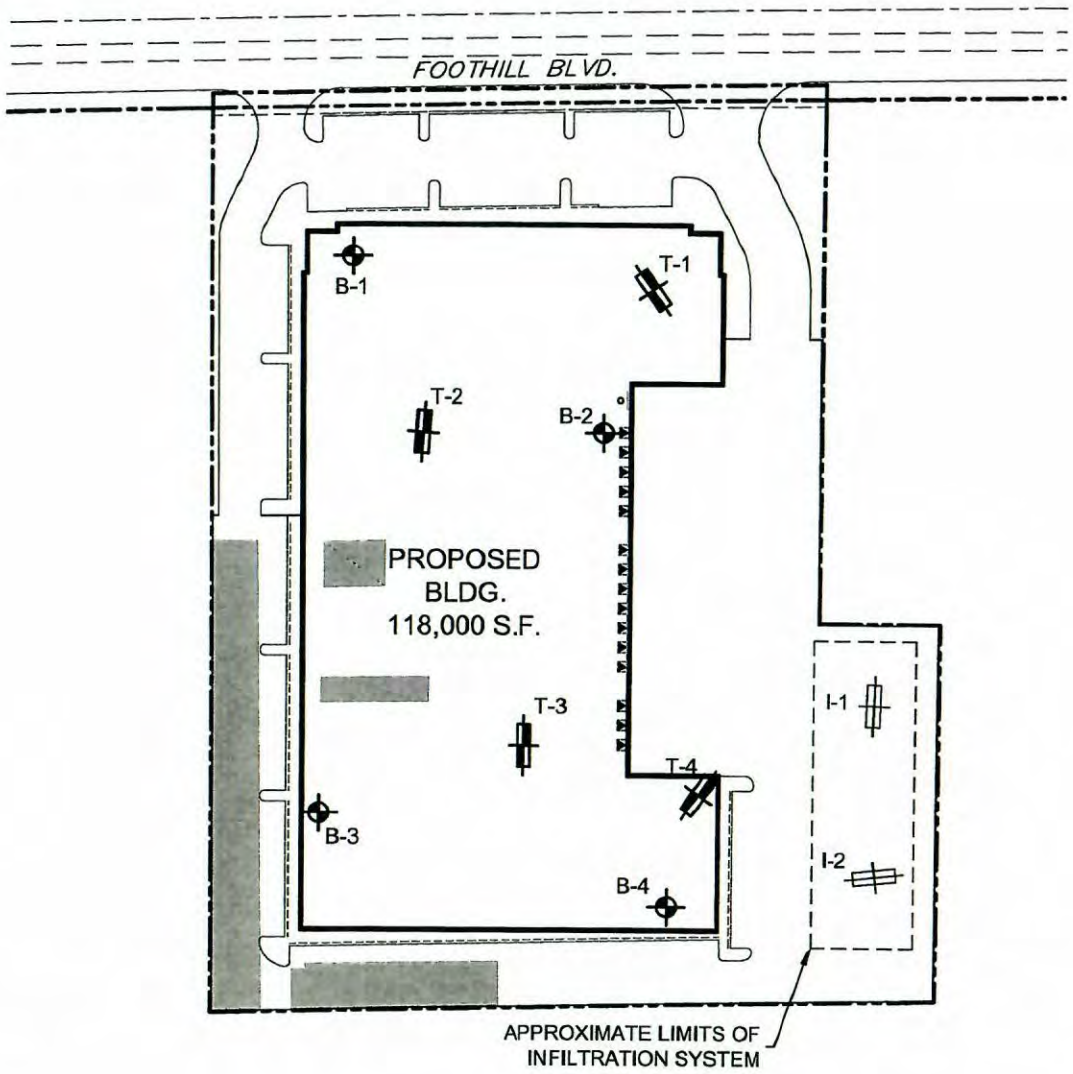


SOURCE: SAN BERNARDINO COUNTY
THOMAS GUIDE, 2013

SITE LOCATION MAP
PROPOSED WAREHOUSE
UPLAND, CALIFORNIA
SCALE: 1" = 2400'
DRAWN: SAM CHKD: RGT
SCG PROJECT 19G216-2
PLATE 1

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



NORTH

GEOTECHNICAL LEGEND

- APPROXIMATE INFILTRATION TEST LOCATION
- APPROXIMATE BORING LOCATION (SCG PROJECT NO. 19G216-1)
- APPROXIMATE TRENCH LOCATION (SCG PROJECT NO. 19G216-1)
- EXISTING STRUCTURES TO BE DEMOLISHED

NOTE. SITE PLAN PREPARED BY GAA ARCHITECTS.

INFILTRATION TEST LOCATION PLAN
PROPOSED WAREHOUSE
UPLAND, CALIFORNIA

SCALE: 1" = 80'	
DRAWN: JH CHKD: RGT	
SCG PROJECT 19G216-2	
PLATE 2	

SOUTHERN CALIFORNIA GEOTECHNICAL

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. I-1

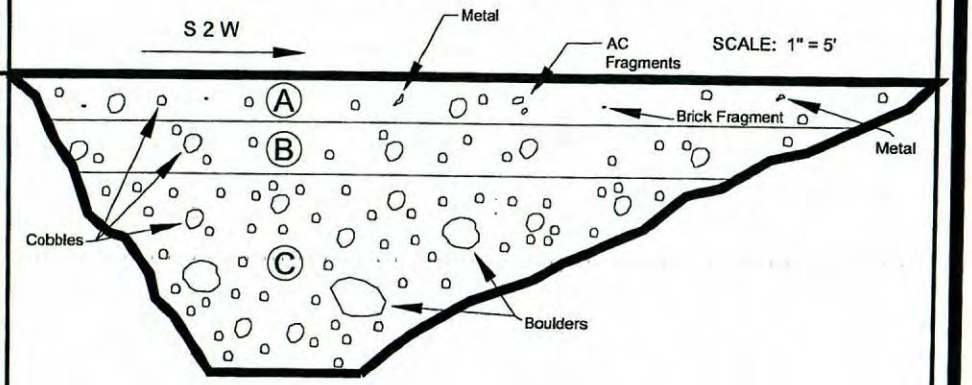
JOB NO.: 19G216-2
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-10-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: S 2 W
ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
5	b		5	A: FILL: Brown Silty fine to coarse Sand, some fine Gravel, little coarse Gravel, little debris (Metal, Asphaltic concrete, and Brick fragments), mottled, dense - damp
	b		4	B: FILL: Dark Gray to Black Gravelly fine to coarse Sand, occasional to extensive Cobbles, little Silt, dense - damp
				C: ALLUVIUM: Light Gray fine to coarse Sandy Gravel, extensive Cobbles, occasional Boulders, very dense - dry to damp
	b		2	
10				Trench Terminated @ 8 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. I-2

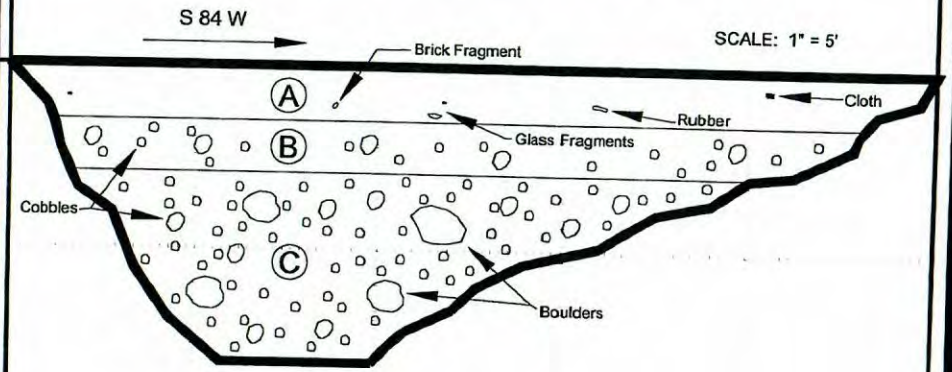
JOB NO.: 19G216-2
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-10-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: S 84 W
ELEVATION:

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		12	A: FILL: Brown Silty fine to coarse Sand, little fine to coarse Gravel, trace to little debris (Glass and Brick fragments, Rubber, Cloth), mottled, medium dense to dense - moist to very moist
	b		3	B: FILL: Dark Gray Gravelly fine to coarse Sand, occasional to extensive Cobbles, little Silt, dense - damp
5				C: ALLUVIUM: Light Gray fine to coarse Sandy Gravel, extensive Cobbles, occasional Boulders, very dense - damp
	b		3	
				Trench Terminated @ 8 feet
10				
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-2

INFILTRATION CALCULATIONS

Project Name	Proposed Warehouse
Project Location	Upland, CA
Project Number	19G216-2
Engineer	Scott McCann

Infiltration Test No: I-1

Constants

	Diameter (ft)	Area (ft^2)	Area (cm^2)
Inner	1	0.79	730
Anlr. Spac	2	2.36	2189

*Note: The infiltration rate was calculated based on current time interval

Test Interval		Time (hr)	Interval **Elapsed** (min)	Flow Readings: Inner Ring (ml)	Flow Readings: Ring Flow (cm^3)	Flow Readings: Annular Ring (ml)	Flow Readings: Space Flow (cm^3)	Infiltration Rates: Inner Ring* (cm/hr)	Infiltration Rates: Annular Space* (cm/hr)	Infiltration Rates: Inner Ring* (in/hr)	Infiltration Rates: Annular Space* (in/hr)
1	Initial	8:15 AM	1	100	1050	600	3700	86.34	101.42	33.99	39.93
	Final	8:16 AM	1	1150		4300					
2	Initial	8:18 AM	1	400	900	600	3600	74.01	98.68	29.14	38.85
	Final	8:19 AM	4	1300		4200					
3	Initial	8:21 AM	1	50	725	250	3400	59.62	93.20	23.47	36.69
	Final	8:22 AM	7	775		3650					
4	Initial	8:24 AM	1	150	700	600	3350	57.56	91.83	22.66	36.15
	Final	8:25 AM	10	850		3950					
5	Initial	8:27 AM	1	100	700	200	3100	57.56	84.97	22.66	33.45
	Final	8:28 AM	13	800		3300					
6	Initial	8:30 AM	1	350	650	900	3050	53.45	83.60	21.04	32.91
	Final	8:31 AM	16	1000		3950					
7	Initial	8:33 AM	1	50	650	350	3100	53.45	84.97	21.04	33.45
	Final	8:34 AM	19	700		3450					
8	Initial	8:36 AM	1	100	675	400	2900	55.51	79.49	21.85	31.30
	Final	8:37 AM	22	775		3300					
9	Initial	8:39 AM	1	150	650	1100	2800	53.45	76.75	21.04	30.22
	Final	8:40 AM	25	800		3900					
10	Initial	8:42 AM	1	200	650	950	2800	53.45	76.75	21.04	30.22
	Final	8:43 AM	28	850		3750					

INFILTRATION CALCULATIONS

Project Name	Proposed Warehouse
Project Location	Upland, CA
Project Number	19G216-2
Engineer	Scott McCann

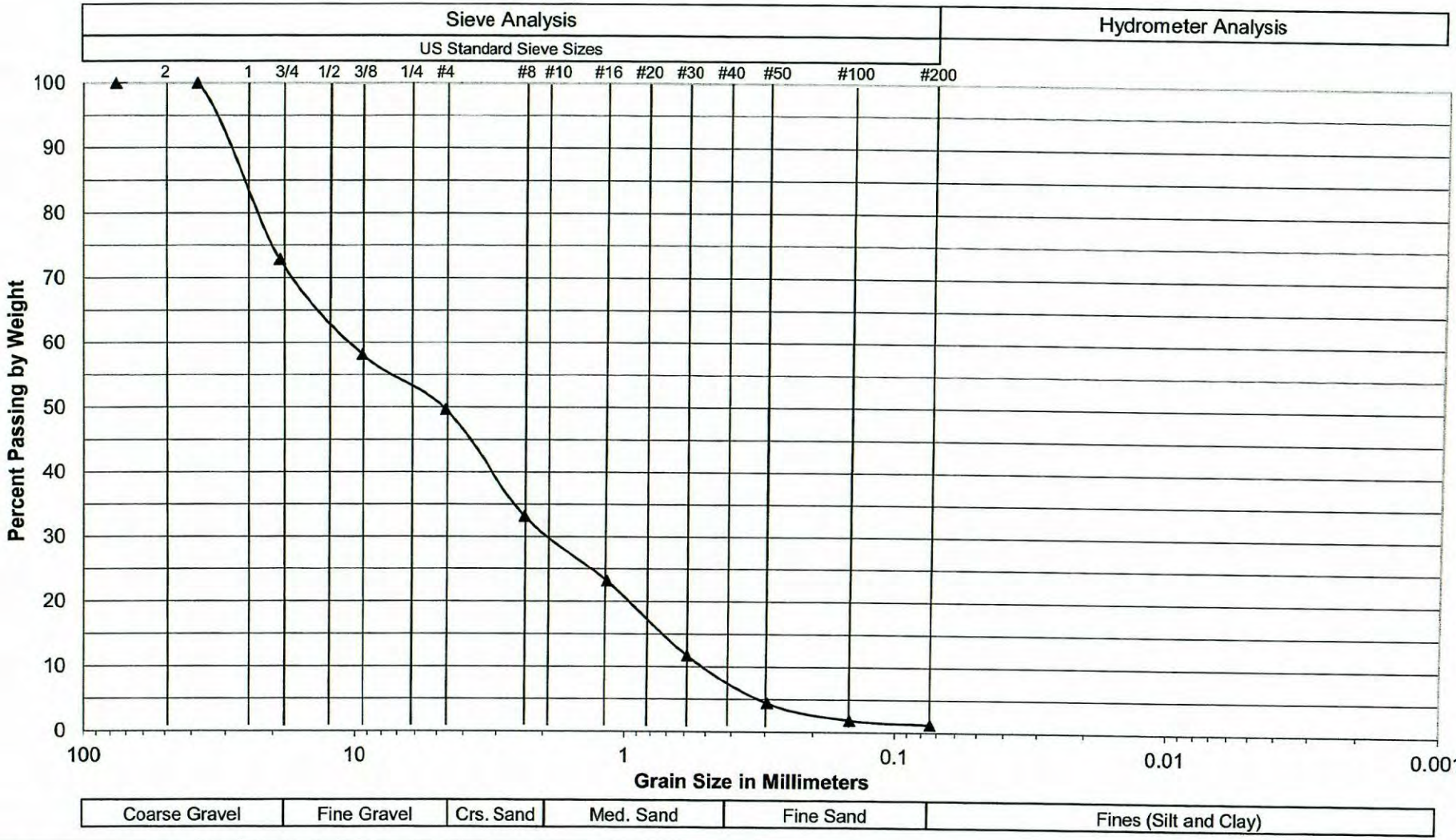
Infiltration Test No: I-2

Constants	Diameter (ft)	Area (ft^2)	Area (cm^2)
Inner	1	0.79	730
Anlr. Spac	2	2.36	2189

*Note: The infiltration rate was calculated based on current time interval

Test Interval		Time (hr)	Interval **Elapsed** (min)	Flow Readings: Inner Ring (ml)	Ring Flow (cm^3)	Annular Ring (ml)	Space Flow (cm^3)	Infiltration Rates: Inner Ring* (cm/hr)	Annular Space* (cm/hr)	Inner Ring* (in/hr)	Annular Space* (in/hr)
1	Initial	9:30 AM	1	200	1200	900	3900	98.68	106.90	38.85	42.09
	Final	9:31 AM	1	1400		4800					
2	Initial	9:33 AM	1	150	950	1100	3450	78.12	94.57	30.76	37.23
	Final	9:34 AM	4	1100		4550					
3	Initial	9:36 AM	1	150	700	900	3400	57.56	93.20	22.66	36.69
	Final	9:37 AM	7	850		4300					
4	Initial	9:39 AM	1	100	650	400	3150	53.45	86.34	21.04	33.99
	Final	9:40 AM	10	750		3550					
5	Initial	9:42 AM	1	200	625	450	3000	51.40	82.23	20.23	32.38
	Final	9:43 AM	13	825		3450					
6	Initial	9:45 AM	1	350	600	200	3000	49.34	82.23	19.43	32.38
	Final	9:46 AM	16	950		3200					
7	Initial	9:48 AM	1	0	600	1550	2950	49.34	80.86	19.43	31.84
	Final	9:49 AM	19	600		4500					
8	Initial	9:51 AM	1	150	575	200	2800	47.28	76.75	18.62	30.22
	Final	9:52 AM	22	725		3000					
9	Initial	9:54 AM	1	200	575	400	2800	47.28	76.75	18.62	30.22
	Final	9:55 AM	25	775		3200					
10	Initial	9:57 AM	1	200	575	450	2750	47.28	75.38	18.62	29.68
	Final	9:58 AM	28	775		3200					

Grain Size Distribution

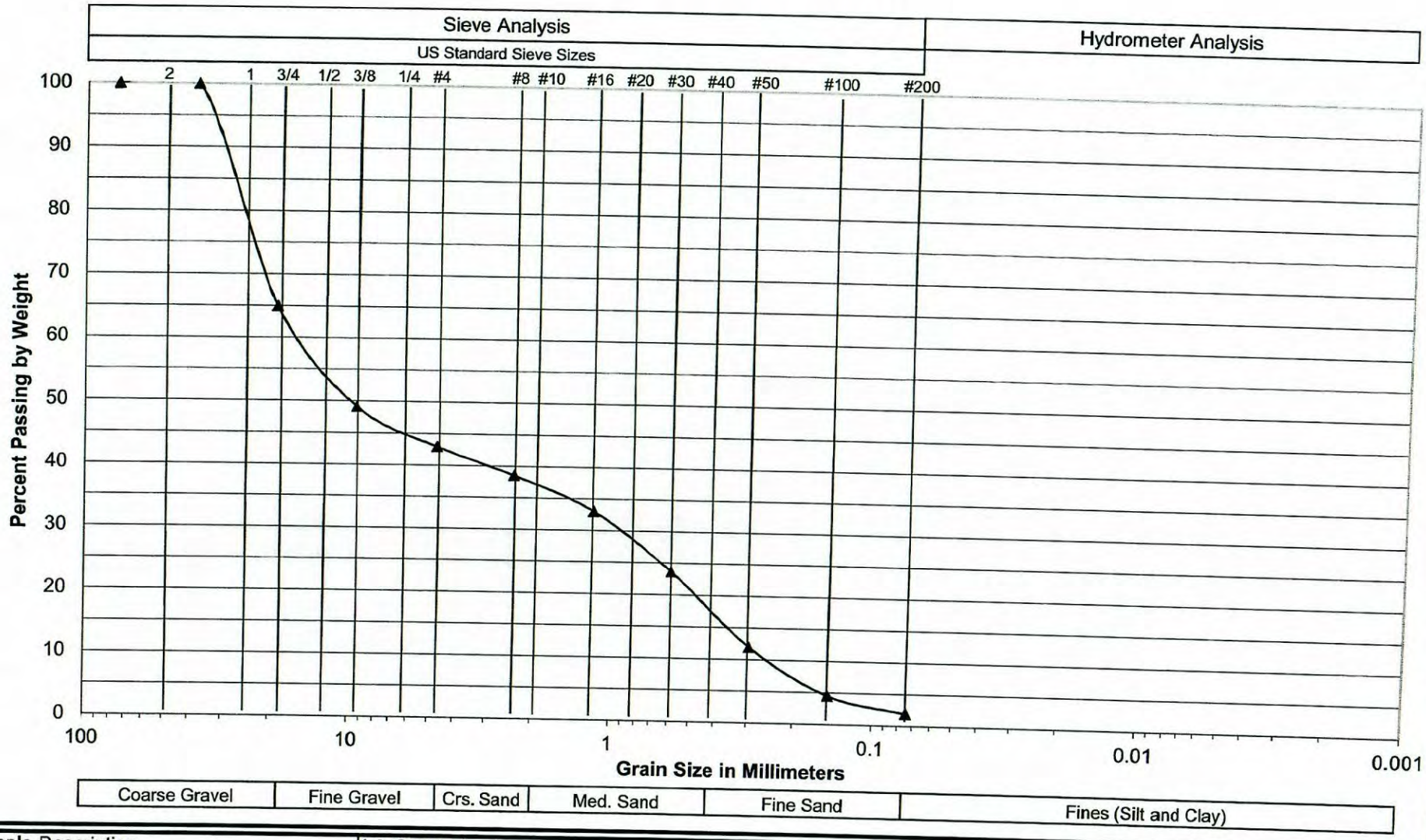


Sample Description	I-1 @ 8 feet
Soil Classification	Light Gray fine to coarse Sandy Gravel

Proposed Warehouse
Upland, CA
Project No. 19G216-2
PLATE C-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

Grain Size Distribution



Sample Description	I-2 @ 8 feet
Soil Classification	Light Gray fine to coarse Sandy Gravel

Proposed Warehouse
Upland, CA
Project No. 19G216-2
PLATE C-2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX C: REGULATORY DATABASE REPORT

PARTNER

West Foothill Boulevard Upland
1750 - 1780 West Foothill Boulevard
UPLAND, CA 91786

Inquiry Number: 6325775.2s
January 11, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1750 - 1780 WEST FOOTHILL BOULEVARD
UPLAND, CA 91786

COORDINATES

Latitude (North):	34.1059450 - 34° 6' 21.40''
Longitude (West):	117.6847710 - 117° 41' 5.17''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	436839.5
UTM Y (Meters):	3773920.0
Elevation:	1344 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5619074 ONTARIO, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
1750 - 1780 WEST FOOTHILL BOULEVARD
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	FENCE CRAFT OF UPLAN	1780 W FOOTHILL BLVD	SWEEPS UST, CA FID UST		TP
A2	INTRAVAIA ROCK & SAN	1770 W FOOTHILL BLVD	HIST UST		TP
A3	FENCE CRAFT OF UPLAN	1780 W FOOTHILL BLVD	HIST UST		TP
A4	INTRAVAIA ROCK & SAN	1770 W FOOTHILL BLVD	SWEEPS UST, HIST UST, CA FID UST		TP
A5	INTRAVAIA ROCK & SAN	1770 W. FOOTHILL BLV	EMI		TP
A6	1X FENCECRAFT	1780 W. FOOTHILL BLV	HAZNET, HWTS		TP
A7	JOEL GILLINGWATORS	1784 WEST FOOTHILL B	HIST UST	Lower	78, 0.015, WSW
A8	JOEL GILLINGWATORS	1784 W FOOTHILL BLVD	HIST UST, San Bern. Co. Permit	Lower	78, 0.015, WSW
A9	MOHS ROBERT	1784 W FOOTHILL BLVD	EDR Hist Auto	Lower	78, 0.015, WSW
A10	JOEL GILLINGWATORS	1784 W FOOTHILL BLVD	SWEEPS UST, CA FID UST	Lower	78, 0.015, WSW
B11	UPLAND MERCEDES REPA	1785 1/2 W FOOTHILL	San Bern. Co. Permit	Higher	100, 0.019, NW
C12	RTR AUTO SALES	1747 W FOOTHILL BLVD	RCRA NonGen / NLR	Higher	131, 0.025, NNE
B13	UPLAND AUTOMOTIVE	1803 W FOOTHILL	RCRA-SQG, CERS HAZ WASTE, FINDS, ECHO, San Bern....	Higher	141, 0.027, NNW
B14	UPLAND AUTOMOTIVE	1803 W FOOTHILL BLVD	RCRA NonGen / NLR	Higher	141, 0.027, NNW
D15	1 STOP AUTO CARE	1710 W FOOTHILL BLVD	RCRA NonGen / NLR	Lower	179, 0.034, East
D16	MAGNA AND MAGNA	1710 W FOOTHILL	RCRA NonGen / NLR	Lower	179, 0.034, East
D17	BENRI MOTOR	1710 W FOOTHILL BLVD	San Bern. Co. Permit, HWTS	Lower	179, 0.034, East
D18	UPLAND 1 AUTO & MACH	1710 W FOOTHILL BLVD	RCRA NonGen / NLR	Lower	179, 0.034, East
D19	ROY'S AUTO REPAIR	1710 W FOOTHILL BLVD	San Bern. Co. Permit	Lower	179, 0.034, East
D20	UNDERGROUND AUTOMOTI	1710 W FOOTHILL BLVD	RCRA NonGen / NLR	Lower	179, 0.034, East
D21	UPLAND ENGINETEK1	1710 W FOOTHILL BLVD	RCRA NonGen / NLR	Lower	179, 0.034, East
D22	VALLEY RADIATOR	1710 W FOOTHILL C-1	RCRA-SQG, FINDS, ECHO	Lower	179, 0.034, East
D23	TOYOTA SPECIALITIES	1710 W FOOTHILL BLVD	RCRA-SQG, FINDS, ECHO	Lower	179, 0.034, East
D24	REIDS GM AUTO SERV	1710 W FOOTHILL BLVD	RCRA-SQG, FINDS, ECHO	Lower	179, 0.034, East
D25	LEDEZMA AUTO BODY PA	1710 W FOOTHILL BLVD	RCRA-SQG, FINDS, ECHO	Lower	179, 0.034, East
D26	TOYLEXURA	1710 W FOOTHILL BLVD	San Bern. Co. Permit	Lower	179, 0.034, East
D27	UNDERGROUND AUTOMOTI	1710 W FOOTHILL BLVD	San Bern. Co. Permit	Lower	179, 0.034, East
D28	REPAIR SOLUTIONS	1710 W FOOTHILL BLVD	RCRA-SQG, FINDS, ECHO	Lower	179, 0.034, East
B29	HONDA NISSAN SPECIAL	1710 W FOOTHILL BLVD	RCRA-SQG, FINDS, ECHO	Higher	246, 0.047, West
B30	WESTPORT UPLAND SELF	1801 FOOTHILL BLVD	RCRA NonGen / NLR	Higher	255, 0.048, NNW
C31	A FOOTHILL AUTO SERV	1775 W FOOTHILL BLVD	CERS HAZ WASTE, HAZNET, CERS, HWTS	Higher	266, 0.050, North
C32	ROUTE 66 AUTO REPAIR	1775 W FOOTHILL BLVD	CERS HAZ WASTE, HAZNET, San Bern. Co. Permit,...	Higher	266, 0.050, North
C33	ROUTE 66 AUTO REPAIR	1775 W FOOTHILL BLVD	RCRA NonGen / NLR	Higher	266, 0.050, North
C34	FLIEDER MAUS	1775 W FOOTHILL BLVD	EDR Hist Auto	Higher	266, 0.050, North
C35	EMPIRE COLLISION CEN	1775 1/2 W FOOTHILL	San Bern. Co. Permit	Higher	266, 0.050, North
C36	MEJIA AUTO BODY SHOP	1775 W FOOTHILL BLVD	San Bern. Co. Permit	Higher	266, 0.050, North
C37	MEJIA AUTO BODY SHOP	1775 W FOOTHILL BLVD	RCRA NonGen / NLR	Higher	266, 0.050, North
D38	VALLEY TRANSMISSIONS	1700 W FOOTHILL BLVD	EDR Hist Auto	Lower	279, 0.053, East
D39	VALLEY TRANSMISSIONS	1700 W FOOTHILL	RCRA-SQG, FINDS, ECHO, HAZNET, San Bern. Co....	Lower	279, 0.053, East

MAPPED SITES SUMMARY

Target Property Address:
1750 - 1780 WEST FOOTHILL BOULEVARD
UPLAND, CA 91786

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
D40	SPEEDWAY MUFFLER	1700 W FOOTHILL BLVD	San Bern. Co. Permit, CERS	Lower	279, 0.053, East
E41	BERRY CONSTRUCTION	1921 W 11TH ST	RCRA-SQG, SWEEPS UST, HIST UST, CA FID UST, FINDS,...	Lower	311, 0.059, SSW
E42	VCI TELECOM	1921 WEST 11TH ST	HIST UST, HAZNET, HWTS	Lower	311, 0.059, SSW
E43	VCI CONSTRUCTION INC	1921 W 11TH ST	RCRA NonGen / NLR	Lower	311, 0.059, SSW
44	FUEL MRKT	888 BERRY CT	EDR Hist Auto	Lower	428, 0.081, WSW
F45	WESTPORT UPLAND SELF	1808 FOOTHILL BLVD	RCRA NonGen / NLR	Higher	484, 0.092, WNW
F46	ALL AROUND PEST & TE	1810 FOOTHILL BLVD A	San Bern. Co. Permit	Higher	501, 0.095, WNW
G47	DEL TACO #243	1653 W FOOTHILL BLVD	San Bern. Co. Permit	Higher	532, 0.101, NE
48	DAVID SPENCER PAINTI	1810 W FOOTHILL BLVD	San Bern. Co. Permit	Lower	559, 0.106, West
E49	LARRY BURKE ENTERPRI	822 BERRY CT	RCRA NonGen / NLR	Lower	559, 0.106, SW
E50	DISTRIBUTOR OPERATIO	822 BERRY CT	RCRA NonGen / NLR	Lower	559, 0.106, SW
E51	LARRY BURKE ENTERPRI	822 BERRY CT	CERS HAZ WASTE, HAZNET, San Bern. Co. Permit,...	Lower	559, 0.106, SW
H52	JIFFY LUBE #1876	1640 W FOOTHILL BLVD	AST	Higher	660, 0.125, ENE
H53	TEAM CAR CARE WEST L	1640 W FOOTHILL BLVD	RCRA NonGen / NLR	Higher	660, 0.125, ENE
H54	JIFFY LUBE #1876	1640 W FOOTHILL BLVD	CERS HAZ WASTE, CERS TANKS, San Bern. Co. Permit,...	Higher	660, 0.125, ENE
G55	BENSON TOWN CLEANERS	1651 W FOOTHILL BLVD	RCRA-SQG, FINDS, ECHO, DRYCLEANERS	Higher	668, 0.127, NE
G56	BENSON TOWN CLEANERS	1651 W FOOTHILL BLVD	DRYCLEANERS	Higher	668, 0.127, NE
G57	BENSON TOWN CLEANERS	1651 W FOOTHILL BLVD	RCRA NonGen / NLR	Higher	668, 0.127, NE
G58	R A PHOTO LAB	1651 W FOOTHILL BLVD	San Bern. Co. Permit	Higher	668, 0.127, NE
G59	BENSON TOWN CLEANER	1651 W FOOTHILL BLVD	DRYCLEANERS	Higher	668, 0.127, NE
H60	DOLLAR CLEANERS	1630 W FOOTHILL BLVD	San Bern. Co. Permit	Higher	686, 0.130, East
61	ECI FUEL SYSTEMS	1794 WEST 11TH STREE	RCRA NonGen / NLR	Lower	700, 0.133, South
I62	ALONSO'S AUTO REPAIR	1820 W 11TH ST UNIT	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Lower	727, 0.138, SSW
I63	HEATH ENTERPRISES	1820 W 11TH ST UNIT	San Bern. Co. Permit, HWTS	Lower	727, 0.138, SSW
I64	ALONSO'S AUTO REPAIR	1820 W 11TH ST STE F	RCRA NonGen / NLR	Lower	727, 0.138, SSW
I65	ALL TRANSMISSION	1820 W 11TH ST UNIT	CERS HAZ WASTE, EMI, San Bern. Co. Permit, CERS	Lower	727, 0.138, SSW
I66	UPTOWN AUTO CRAFT,LL	1824 W 11TH ST STE A	CERS HAZ WASTE, HAZNET, San Bern. Co. Permit,...	Lower	732, 0.139, SSW
I67	UPTOWN AUTO CRAFT LL	1824 W 11TH ST STE A	RCRA NonGen / NLR	Lower	732, 0.139, SSW
I68	SUPERIOR SUBARU REPA	1828 W 11TH ST STE F	RCRA NonGen / NLR	Lower	751, 0.142, SSW
I69	GREEN TECH COLLISION	1828 W 11TH ST UNIT	San Bern. Co. Permit, CERS	Lower	751, 0.142, SSW
I70	INLAND ROD & RESTORA	1828 W 11TH ST STE H	RCRA NonGen / NLR	Lower	751, 0.142, SSW
I71	SUPERIOR SUBARU REPA	1828 W 11TH ST UNIT	CERS HAZ WASTE, San Bern. Co. Permit, CERS, HWTS	Lower	751, 0.142, SSW
I72	LLOYD MOSHER ENTERPR	1830 W 11TH ST UNIT	San Bern. Co. Permit	Lower	755, 0.143, SSW
I73	AL & LEES AUTO CARE	1830 WEST 11TH ST #A	CERS HAZ WASTE, HAZNET, San Bern. Co. Permit,...	Lower	755, 0.143, SSW
I74	AL & LEES AUTO CARE	1830 WEST 11TH ST #A	RCRA NonGen / NLR	Lower	755, 0.143, SSW
I75	WEST WORKS	1838 W 11TH ST STE D	RCRA NonGen / NLR	Lower	772, 0.146, SSW
I76	UNIVERSAL AUTO CENTE	1838 W 11TH ST	CERS HAZ WASTE, HAZNET, CERS, HWTS	Lower	772, 0.146, SSW
I77	WEST WORKS	1838 W 11TH UNIT D	San Bern. Co. Permit	Lower	772, 0.146, SSW
I78	SIERRA AUTO BODY & P	1838 W 11TH ST E	San Bern. Co. Permit	Lower	772, 0.146, SSW

MAPPED SITES SUMMARY

Target Property Address:
1750 - 1780 WEST FOOTHILL BOULEVARD
UPLAND, CA 91786

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
I79	PURE GOLD RADIATOR	1838 W 11TH ST	RCRA-SQG, FINDS, ECHO	Lower	772, 0.146, SSW
I80	LEMCO PRECISION INC.	1842 W. 11TH STREET	RCRA NonGen / NLR	Lower	791, 0.150, SSW
I81	MORE THAN JUST CARS,	1842 W 11TH ST C	San Bern. Co. Permit	Lower	791, 0.150, SSW
I82	LEMCO PRECISION INC.	1842 W 11TH ST	San Bern. Co. Permit	Lower	791, 0.150, SSW
J83	PARAGON FLUID POWER	687 N BENSON AVE E &	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Lower	811, 0.154, ESE
K84	OTT PRECISION MACHIN	1658 W 11TH ST STE J	HAZNET, San Bern. Co. Permit, HWTS	Lower	833, 0.158, SSE
K85	CREATIVE CARVINGS	1658 W 11TH ST H	San Bern. Co. Permit	Lower	833, 0.158, SSE
K86	OTT PRECISION MACHIN	1658 W 11TH ST STE J	RCRA NonGen / NLR	Lower	833, 0.158, SSE
L87	AT&T MOBILITY - (USI	1837 W 11TH ST	San Bern. Co. Permit, CERS	Lower	834, 0.158, SW
H88	CARL'S JR #270	1610 W FOOTHILL BLVD	San Bern. Co. Permit	Higher	846, 0.160, East
M89	UNOCAL	1639 W FOOTHILL BLVD	UST	Higher	876, 0.166, ENE
M90	CABLE CAR WASH	1639 W FOOTHILL BLVD	CERS HAZ WASTE, SWEEPS UST, CERS TANKS, San Bern....	Higher	876, 0.166, ENE
M91	CHOOS ENERGY INC DBA	1639 W FOOTHILL BLVD	RCRA NonGen / NLR	Higher	876, 0.166, ENE
J92	A FOOTHILL AUTO SERV	939 N BENSON AVE	RCRA NonGen / NLR	Lower	916, 0.173, East
J93	A FOOTHILL AUTO SERV	939 N BENSON AVE	CERS HAZ WASTE, HAZNET, San Bern. Co. Permit,...	Lower	916, 0.173, East
K94	HINSON ENTERPRISES I	1630 W 11TH ST UNIT	RCRA NonGen / NLR	Lower	920, 0.174, SE
N95	GREEN TECH COLLISION	1800 W 11TH ST UNIT	RCRA NonGen / NLR	Lower	954, 0.181, South
N96	MIKE'S AUTOMOTIVE	1800 W 11TH ST STE B	RCRA NonGen / NLR	Lower	954, 0.181, South
N97	GREEN TECH COLLISION	1800 W 11 TH STE A	San Bern. Co. Permit	Lower	954, 0.181, South
N98	MIKE'S AUTOMOTIVE	1800 W 11 TH STE B	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Lower	954, 0.181, South
I99	AL & LEE'S AUTO CARE	1830 W 11TH ST A&B	San Bern. Co. Permit	Lower	955, 0.181, SSW
J100	JADE CONTROLS	959 N. BENSON AVENUE	RCRA-LQG	Higher	963, 0.182, East
L101	WALTON FABRICATION	1933 W 11TH ST UNIT	San Bern. Co. Permit	Lower	971, 0.184, SW
L102	CJ MEDIA	1933 W 11TH ST UNIT	San Bern. Co. Permit	Lower	971, 0.184, SW
L103	KENGRAPHICS PRINTING	1935 W 11TH ST A	San Bern. Co. Permit	Lower	996, 0.189, SW
L104	ACE ENGINEERING	1937 W 11TH ST STE C	RCRA NonGen / NLR	Lower	1012, 0.192, SW
L105	CALAWAY & BROOKS INC	1937 W 11TH ST STE F	CERS HAZ WASTE, HAZNET, San Bern. Co. Permit,...	Lower	1012, 0.192, SW
O106	LOWE'S OF UPLAND #10	1659 W FOOTHILL BLVD	RCRA-SQG	Higher	1021, 0.193, NE
O107	LOWES #1041	1659 W FOOTHILL BLVD	CERS HAZ WASTE, CERS TANKS, HAZNET, San Bern. Co....	Higher	1021, 0.193, NE
O108	LOWE'S OF UPLAND #10	1659 W FOOTHILL	AST	Higher	1021, 0.193, NE
O109	LOWE'S OF UPLAND #10	1659 W FOOTHILL BLVD	AST	Higher	1021, 0.193, NE
P110	CATTRAC CONSTRUCTION	1953 WEST 11TH STREE	HIST UST	Lower	1137, 0.215, SW
P111	CATTRAC CONSTRUCTION	1953 W 11TH ST	HIST UST, San Bern. Co. Permit	Lower	1137, 0.215, SW
N112	T & C SMALL ENGINES	1777 WOODLAWN ST G-2	San Bern. Co. Permit	Lower	1177, 0.223, South
N113	M.B. AUTOMOTIVE INC.	1777 WOODLAWN ST STE	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Lower	1177, 0.223, South
N114	HARDING'S AUTOMOTIVE	1777 WOODLAWN ST G14	San Bern. Co. Permit	Lower	1177, 0.223, South
N115	DELISLE CUSTOM PRODU	1777 WOODLAWN ST UNI	San Bern. Co. Permit	Lower	1177, 0.223, South
N116	REDLINE CORVETTE PAR	1777 WOODLAWN ST G4	San Bern. Co. Permit	Lower	1177, 0.223, South
Q117	R & A AUTO SOLUTIONS	779 N BENSON AVE UNI	RCRA NonGen / NLR	Lower	1200, 0.227, SE

MAPPED SITES SUMMARY

Target Property Address:
1750 - 1780 WEST FOOTHILL BOULEVARD
UPLAND, CA 91786

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Q118	PIERRE'S AUTO CLINIC	779 N BENSON UNIT H	CERS HAZ WASTE, CERS	Lower	1200, 0.227, SE
Q119	ACE MOTORSPORTS	779 N BENSON AVE UNI	RCRA NonGen / NLR	Lower	1200, 0.227, SE
Q120	GEAR IT UP	779 N BENSON AVE UNI	San Bern. Co. Permit	Lower	1200, 0.227, SE
Q121	PIERRE'S AUTO CLINIC	779 N BENSON UNIT H	San Bern. Co. Permit	Lower	1200, 0.227, SE
122	CABLE AIRPORT, INC.	1749 W 013TH ST	SWEEPS UST, CA FID UST	Higher	1206, 0.228, North
R123	MASTER SIGN	1846 W 11TH ST UNIT	San Bern. Co. Permit	Lower	1245, 0.236, SSW
R124	JIM VAN GORDON RACIN	1846 W 11TH ST	RCRA-SQG, FINDS	Lower	1245, 0.236, SSW
R125	UNIVERSAL NDT INC	1844 W 11TH ST UNIT	RCRA NonGen / NLR, FINDS, ECHO	Lower	1254, 0.237, SSW
S126	M AND N TRANSMISSION	923 CENTRAL AVE STE	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Lower	1300, 0.246, West
S127	UPLAND MERCEDES REPA	923 CENTRAL AVE	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Lower	1300, 0.246, West
S128	R & R ROTARY	933 CENTRAL D	San Bern. Co. Permit	Lower	1301, 0.246, West
129	LAND CARE INC.	8475 LOMA PL	LUST, Cortese, HIST CORTESE, San Bern. Co. Permit,...	Lower	1612, 0.305, South
T130	DINEEN TRUCKING	1284 AIRPORT DR	LUST, SWEEPS UST, CA FID UST, Cortese, HIST...	Higher	1790, 0.339, NW
T131	DINEEN TRUCKING INC	1284 AIRPORT DR	LUST, HIST UST, NPDES, San Bern. Co. Permit, CERS,...	Higher	1790, 0.339, NW
U132	JOHN DOSH	1853 W ARROW HWY	LUST, SWEEPS UST, CA FID UST, Cortese, CERS	Lower	1938, 0.367, SSW
U133	DOSH PROPERTY	1853 ARROW RT	LUST, HIST CORTESE	Lower	1938, 0.367, SSW
V134	CABLE AIRPORT	1749 W. 13TH STREET	SEMS, FINDS, ECHO	Higher	2075, 0.393, North
V135	CABLE AIRPORT	1749 WEST 13TH STREE	ENVIROSTOR, EMI, HAZNET, NPDES, San Bern. Co....	Higher	2075, 0.393, North
W136	WESTON E. MONTGOMERY	2085 11TH	LUST, HIST CORTESE	Lower	2412, 0.457, WSW
W137	WESTON E. MONTGOMERY	2085 W 11TH ST	LUST, HIST UST, Cortese, CERS	Lower	2412, 0.457, WSW
X138	UPLAND CITY YARD	1370	LUST, HIST CORTESE	Higher	2586, 0.490, NNE
X139	UPLAND CITY YARD	1370 N BENSON AVE	LUST, CERS HAZ WASTE, Cortese, NPDES, San Bern....	Higher	2586, 0.490, NNE
140	LAIDLAW ENVIRONMENTA	1369 W 9TH ST	ENVIROSTOR, SWEEPS UST, HIST UST, CA FID UST, EMI,...	Lower	4266, 0.808, SE
141	PROPERTY AT 1333 WES	1333 WEST 9TH STREET	ENVIROSTOR, SCH, DEED, CIWQS	Lower	4491, 0.851, SE
142	ARROW HIGHWAY INDUST	5566 ARROW HIGHWAY	ENVIROSTOR, VCP, NPDES, CIWQS, CERS	Lower	4561, 0.864, South

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
FENCE CRAFT OF UPLAN 1780 W FOOTHILL BLVD UPLAND, CA 91786	SWEEPS UST Status: A Comp Number: 17811 CA FID UST Facility Id: 36001473 Status: A	N/A
INTRAVAIA ROCK & SAN 1770 W FOOTHILL BLVD UPLAND, CA 91786	HIST UST Facility Id: 00000019230	N/A
FENCE CRAFT OF UPLAN 1780 W FOOTHILL BLVD UPLAND, CA 91786	HIST UST Facility Id: 00000017811	N/A
INTRAVAIA ROCK & SAN 1770 W FOOTHILL BLVD UPLAND, CA 91786	SWEEPS UST Comp Number: 19230 HIST UST CA FID UST Facility Id: 36001023 Status: I	N/A
INTRAVAIA ROCK & SAN 1770 W. FOOTHILL BLV UPLAND, CA 91786	EMI Facility Id: 23546	N/A
1X FENCECRAFT 1780 W. FOOTHILL BLV UPLAND, CA 91786	HAZNET GEPAID: CAC000252697 HWTS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

EXECUTIVE SUMMARY

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

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-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Properties

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

EXECUTIVE SUMMARY

SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CUPA Listings	CUPA Resources List
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
PROJECT	PROJECT (GEOTRACKER)
WDR	Waste Discharge Requirements Listing

EXECUTIVE SUMMARY

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 Cleaner ---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: 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.

A review of the SEMS list, as provided by EDR, and dated 10/28/2020 has revealed that there is 1 SEMS

site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CABLE AIRPORT	***1749 W. 13TH STREET***	***N 1/4 - 1/2 (0.393 mi.)***	***V134***	***448***

Federal RCRA generators list

RCRA-LQG: 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.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/14/2020 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JADE CONTROLS EPA ID:: CAD009661174	959 N. BENSON AVENUE	E 1/8 - 1/4 (0.182 mi.)	J100	306

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 14 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UPLAND AUTOMOTIVE EPA ID:: CAD983587767	***1803 W FOOTHILL***	***NNW 0 - 1/8 (0.027 mi.)***	***B13***	***19***
HONDA NISSAN SPECIAL EPA ID:: CAD982321291	***1710 W FOOTHILL BLVD***	***W 0 - 1/8 (0.047 mi.)***	***B29***	***61***
BENSON TOWN CLEANERS EPA ID:: CAD983634031	***1651 W FOOTHILL BLVD***	***NE 1/8 - 1/4 (0.127 mi.)***	***G55***	***163***
LOWE'S OF UPLAND #10 EPA ID:: CAR000279695	1659 W FOOTHILL BLVD	NE 1/8 - 1/4 (0.193 mi.)	O106	317

Lower Elevation	Address	Direction / Distance	Map ID	Page
VALLEY RADIATOR EPA ID:: CAD982481301	***1710 W FOOTHILL C-1***	***E 0 - 1/8 (0.034 mi.)***	***D22***	***45***
TOYOTA SPECIALITIES EPA ID:: CAD982321242	***1710 W FOOTHILL BLVD***	***E 0 - 1/8 (0.034 mi.)***	***D23***	***48***
REIDS GM AUTO SERV EPA ID:: CAD982407405	***1710 W FOOTHILL BLVD***	***E 0 - 1/8 (0.034 mi.)***	***D24***	***51***
LEDEZMA AUTO BODY PA	***1710 W FOOTHILL BLVD***	***E 0 - 1/8 (0.034 mi.)***	***D25***	***54***

EPA ID:: CAD982407751				
REPAIR SOLUTIONS	***1710 W FOOTHILL BLVD***	***E 0 - 1/8 (0.034 mi.)***	***D28***	***58***
EPA ID:: CAD982321226				
VALLEY TRANSMISSIONS	***1700 W FOOTHILL***	***E 0 - 1/8 (0.053 mi.)***	***D39***	***90***
EPA ID:: CAD982495822				
BERRY CONSTRUCTION	***1921 W 11TH ST***	***SSW 0 - 1/8 (0.059 mi.)***	***E41***	***126***
EPA ID:: CAD981970437				
PURE GOLD RADIATOR	***1838 W 11TH ST***	***SSW 1/8 - 1/4 (0.146 mi.)***	***I79***	***231***
EPA ID:: CAD982037111				
JIM VAN GORDON RACIN	***1846 W 11TH ST***	***SSW 1/8 - 1/4 (0.236 mi.)***	***R124***	***406***
EPA ID:: CAR000096594				
M AND N TRANSMISSION	***923 CENTRAL AVE STE***	***W 1/8 - 1/4 (0.246 mi.)***	***S126***	***411***
EPA ID:: CAR000105213				

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 07/27/2020 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CABLE AIRPORT	***1749 WEST 13TH STREE***	***N 1/4 - 1/2 (0.393 mi.)***	***V135***	***450***
Facility Id: 60002592				
Status: Active				

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAIDLAW ENVIRONMENTA	***1369 W 9TH ST***	***SE 1/2 - 1 (0.808 mi.)***	***140***	***471***
Facility Id: 80001858				
Status: Inactive - Needs Evaluation				
PROPERTY AT 1333 WES	***1333 WEST 9TH STREET***	***SE 1/2 - 1 (0.851 mi.)***	***141***	***479***
Facility Id: 36350023				
Status: Certified O&M - Land Use Restrictions Only				
ARROW HIGHWAY INDUST	***5566 ARROW HIGHWAY***	***S 1/2 - 1 (0.864 mi.)***	***142***	***486***
Facility Id: 60002825				
Status: Active				

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 9 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DINEEN TRUCKING	***1284 AIRPORT DR***	***NW 1/4 - 1/2 (0.339 mi.)***	***T130***	***427***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100057				
DINEEN TRUCKING INC	***1284 AIRPORT DR***	***NW 1/4 - 1/2 (0.339 mi.)***	***T131***	***431***
Database: LUST, Date of Government Version: 09/08/2020 Status: Completed - Case Closed Global Id: T0607100057				
UPLAND CITY YARD	***1370***	***NNE 1/4 - 1/2 (0.490 mi.)***	***X138***	***461***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100633				
UPLAND CITY YARD	***1370 N BENSON AVE***	***NNE 1/4 - 1/2 (0.490 mi.)***	***X139***	***462***
Database: LUST, Date of Government Version: 09/08/2020 Status: Completed - Case Closed Global Id: T0607100633				

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAND CARE INC.	***8475 LOMA PL***	***S 1/4 - 1/2 (0.305 mi.)***	***129***	***420***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 09/08/2020 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0607100625 Global ID: T0607100625				
JOHN DOSH	***1853 W ARROW HWY***	***SSW 1/4 - 1/2 (0.367 mi.)***	***U132***	***443***
Database: LUST, Date of Government Version: 09/08/2020 Status: Completed - Case Closed Global Id: T0607100338				
DOSH PROPERTY	***1853 ARROW RT***	***SSW 1/4 - 1/2 (0.367 mi.)***	***U133***	***447***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100338				
WESTON E. MONTGOMERY	***2085 11TH***	***WSW 1/4 - 1/2 (0.457 mi.)***	***W136***	***457***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100397				
WESTON E. MONTGOMERY	***2085 W 11TH ST***	***WSW 1/4 - 1/2 (0.457 mi.)***	***W137***	***458***
Database: LUST, Date of Government Version: 09/08/2020 Status: Completed - Case Closed Global Id: T0607100397				

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
UNOCAL	1639 W FOOTHILL BLVD	ENE 1/8 - 1/4 (0.166 mi.)	M89	265
Database: UST, Date of Government Version: 09/08/2020				
Facility Id: 99047800				
Facility Id: FA0006931				

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 are 3 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JIFFY LUBE #1876	1640 W FOOTHILL BLVD	ENE 0 - 1/8 (0.125 mi.)	H52	153
Database: AST, Date of Government Version: 07/06/2016				
LOWE'S OF UPLAND #10	1659 W FOOTHILL	NE 1/8 - 1/4 (0.193 mi.)	O108	378
Database: AST, Date of Government Version: 07/06/2016				
LOWE'S OF UPLAND #10	1659 W FOOTHILL BLVD	NE 1/8 - 1/4 (0.193 mi.)	O109	379
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 10/19/2020 has revealed that there are 20 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UPLAND AUTOMOTIVE	***1803 W FOOTHILL***	***NNW 0 - 1/8 (0.027 mi.)***	***B13***	***19***
A FOOTHILL AUTO SERV	***1775 W FOOTHILL BLVD***	***N 0 - 1/8 (0.050 mi.)***	***C31***	***66***
ROUTE 66 AUTO REPAIR	***1775 W FOOTHILL BLVD***	***N 0 - 1/8 (0.050 mi.)***	***C32***	***76***
JIFFY LUBE #1876	***1640 W FOOTHILL BLVD***	***ENE 0 - 1/8 (0.125 mi.)***	***H54***	***156***
CABLE CAR WASH	***1639 W FOOTHILL BLVD***	***ENE 1/8 - 1/4 (0.166 mi.)***	***M90***	***266***
LOWES #1041	***1659 W FOOTHILL BLVD***	***NE 1/8 - 1/4 (0.193 mi.)***	***O107***	***321***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LARRY BURKE ENTERPRI	***822 BERRY CT***	***SW 0 - 1/8 (0.106 mi.)***	***E51***	***144***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALONSO'S AUTO REPAIR	*1820 W 11TH ST UNIT*	*SSW 1/8 - 1/4 (0.138 mi.)*	*I62*	*174*
ALL TRANSMISSION	*1820 W 11TH ST UNIT*	*SSW 1/8 - 1/4 (0.138 mi.)*	*I65*	*184*
UPTOWN AUTO CRAFT,LL	*1824 W 11TH ST STE A*	*SSW 1/8 - 1/4 (0.139 mi.)*	*I66*	*190*
SUPERIOR SUBARU REPA	*1828 W 11TH ST UNIT*	*SSW 1/8 - 1/4 (0.142 mi.)*	*I71*	*209*
AL & LEES AUTO CARE	*1830 WEST 11TH ST #A*	*SSW 1/8 - 1/4 (0.143 mi.)*	*I73*	*214*
UNIVERSAL AUTO CENTE	*1838 W 11TH ST*	*SSW 1/8 - 1/4 (0.146 mi.)*	*I76*	*225*
PARAGON FLUID POWER	*687 N BENSON AVE E &*	*ESE 1/8 - 1/4 (0.154 mi.)*	*J83*	*237*
A FOOTHILL AUTO SERV	*939 N BENSON AVE*	*E 1/8 - 1/4 (0.173 mi.)*	*J93*	*284*
MIKE'S AUTOMOTIVE	*1800 W 11 TH STE B*	*S 1/8 - 1/4 (0.181 mi.)*	*N98*	*302*
CALAWAY & BROOKS INC	*1937 W 11TH ST STE F*	*SW 1/8 - 1/4 (0.192 mi.)*	*L105*	*312*
M.B. AUTOMOTIVE INC.	*1777 WOODLAWN ST STE*	*S 1/8 - 1/4 (0.223 mi.)*	*N113*	*382*
PIERRE'S AUTO CLINIC	*779 N BENSON UNIT H*	*SE 1/8 - 1/4 (0.227 mi.)*	*Q118*	*394*
UPLAND MERCEDES REPA	*923 CENTRAL AVE*	*W 1/8 - 1/4 (0.246 mi.)*	*S127*	*415*

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 4 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CABLE CAR WASH Status: A Tank Status: A Comp Number: 353	*1639 W FOOTHILL BLVD*	*ENE 1/8 - 1/4 (0.166 mi.)*	*M90*	*266*
CABLE AIRPORT, INC. Status: A Tank Status: A Comp Number: 9343	*1749 W 013TH ST*	*N 1/8 - 1/4 (0.228 mi.)*	*122*	*403*

Lower Elevation	Address	Direction / Distance	Map ID	Page
JOEL GILLINGWATORS Status: A Tank Status: A Comp Number: 64519	*1784 W FOOTHILL BLVD*	*WSW 0 - 1/8 (0.015 mi.)*	*A10*	*16*
BERRY CONSTRUCTION Status: A Tank Status: A Comp Number: 42419	*1921 W 11TH ST*	*SSW 0 - 1/8 (0.059 mi.)*	*E41*	*126*

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 6 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
JOEL GILLINGWATORS	1784 WEST FOOTHILL B	WSW 0 - 1/8 (0.015 mi.)	A7	14
JOEL GILLINGWATORS	***1784 W FOOTHILL BLVD***	***WSW 0 - 1/8 (0.015 mi.)***	***A8***	***14***
Facility Id: 00000064519				
BERRY CONSTRUCTION	***1921 W 11TH ST***	***SSW 0 - 1/8 (0.059 mi.)***	***E41***	***126***
Facility Id: 00000042419				
VCI TELECOM	***1921 WEST 11TH ST***	***SSW 0 - 1/8 (0.059 mi.)***	***E42***	***130***
CATTRAC CONSTRUCTION	1953 WEST 11TH STREE	SW 1/8 - 1/4 (0.215 mi.)	P110	379
CATTRAC CONSTRUCTION	***1953 W 11TH ST***	***SW 1/8 - 1/4 (0.215 mi.)***	***P111***	***380***
Facility Id: 00000042420				

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 3 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CABLE AIRPORT, INC.	***1749 W 013TH ST***	***N 1/8 - 1/4 (0.228 mi.)***	***122***	***403***
Facility Id: 36008315				
Status: A				

Lower Elevation	Address	Direction / Distance	Map ID	Page
JOEL GILLINGWATORS	***1784 W FOOTHILL BLVD***	***WSW 0 - 1/8 (0.015 mi.)***	***A10***	***16***
Facility Id: 36006231				
Status: A				
BERRY CONSTRUCTION	***1921 W 11TH ST***	***SSW 0 - 1/8 (0.059 mi.)***	***E41***	***126***
Facility Id: 36008986				
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 10/19/2020 has revealed that there are 3 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JIFFY LUBE #1876	***1640 W FOOTHILL BLVD***	***ENE 0 - 1/8 (0.125 mi.)***	***H54***	***156***
CABLE CAR WASH	***1639 W FOOTHILL BLVD***	***ENE 1/8 - 1/4 (0.166 mi.)***	***M90***	***266***
LOWES #1041	***1659 W FOOTHILL BLVD***	***NE 1/8 - 1/4 (0.193 mi.)***	***O107***	***321***

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 34 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RTR AUTO SALES EPA ID:: CAC003030896	1747 W FOOTHILL BLVD	NNE 0 - 1/8 (0.025 mi.)	C12	17
UPLAND AUTOMOTIVE EPA ID:: CAL000010034	1803 W FOOTHILL BLVD	NNW 0 - 1/8 (0.027 mi.)	B14	28
WESTPORT UPLAND SELF EPA ID:: CAC003016994	1801 FOOTHILL BLVD	NNW 0 - 1/8 (0.048 mi.)	B30	64
ROUTE 66 AUTO REPAIR EPA ID:: CAL000329460	1775 W FOOTHILL BLVD	N 0 - 1/8 (0.050 mi.)	C33	81
MEJIA AUTO BODY SHOP	1775 W FOOTHILL BLVD	N 0 - 1/8 (0.050 mi.)	C37	87
WESTPORT UPLAND SELF EPA ID:: CAC003016998	1808 FOOTHILL BLVD	WNW 0 - 1/8 (0.092 mi.)	F45	136
TEAM CAR CARE WEST L EPA ID:: CAL000438431	1640 W FOOTHILL BLVD	ENE 0 - 1/8 (0.125 mi.)	H53	154
BENSON TOWN CLEANERS EPA ID:: CAL000191826	1651 W FOOTHILL BLVD	NE 1/8 - 1/4 (0.127 mi.)	G57	167
CHOOS ENERGY INC DBA EPA ID:: CAL000329841	1639 W FOOTHILL BLVD	ENE 1/8 - 1/4 (0.166 mi.)	M91	279

Lower Elevation	Address	Direction / Distance	Map ID	Page
1 STOP AUTO CARE	1710 W FOOTHILL BLVD	E 0 - 1/8 (0.034 mi.)	D15	31
MAGNA AND MAGNA EPA ID:: CAC002968323	1710 W FOOTHILL	E 0 - 1/8 (0.034 mi.)	D16	33
UPLAND 1 AUTO & MACH EPA ID:: CAL000436129	1710 W FOOTHILL BLVD	E 0 - 1/8 (0.034 mi.)	D18	37
UNDERGROUND AUTOMOTI EPA ID:: CAL000430578	1710 W FOOTHILL BLVD	E 0 - 1/8 (0.034 mi.)	D20	40
UPLAND ENGINETEK1 EPA ID:: CAL000439419	1710 W FOOTHILL BLVD	E 0 - 1/8 (0.034 mi.)	D21	42
VCI CONSTRUCTION INC EPA ID:: CAL000321658	1921 W 11TH ST	SSW 0 - 1/8 (0.059 mi.)	E43	133
LARRY BURKE ENTERPRI EPA ID:: CAL000309889	822 BERRY CT	SW 0 - 1/8 (0.106 mi.)	E49	139
DISTRIBUTOR OPERATIO EPA ID:: CAL000452941	822 BERRY CT	SW 0 - 1/8 (0.106 mi.)	E50	142
ECI FUEL SYSTEMS	1794 WEST 11TH STREE	S 1/8 - 1/4 (0.133 mi.)	61	171
ALONSO'S AUTO REPAIR	1820 W 11TH ST STE F	SSW 1/8 - 1/4 (0.138 mi.)	I64	182

EPA ID:: CAL000366200				
UPTOWN AUTO CRAFT LL EPA ID:: CAL000323720	1824 W 11TH ST STE A	SSW 1/8 - 1/4 (0.139 mi.)	I67	195
SUPERIOR SUBARU REPA EPA ID:: CAL000021908	1828 W 11TH ST STE F	SSW 1/8 - 1/4 (0.142 mi.)	I68	197
INLAND ROD & RESTORA	1828 W 11TH ST STE H	SSW 1/8 - 1/4 (0.142 mi.)	I70	206
AL & LEES AUTO CARE	1830 WEST 11TH ST #A	SSW 1/8 - 1/4 (0.143 mi.)	I74	220
WEST WORKS EPA ID:: CAL000137598	1838 W 11TH ST STE D	SSW 1/8 - 1/4 (0.146 mi.)	I75	222
LEMCO PRECISION INC. EPA ID:: CAC002980490	1842 W. 11TH STREET	SSW 1/8 - 1/4 (0.150 mi.)	I80	234
OTT PRECISION MACHIN EPA ID:: CAL000062391	1658 W 11TH ST STE J	SSE 1/8 - 1/4 (0.158 mi.)	K86	261
A FOOTHILL AUTO SERV EPA ID:: CAL000143943	939 N BENSON AVE	E 1/8 - 1/4 (0.173 mi.)	J92	281
HINSON ENTERPRISES I EPA ID:: CAL000334221	1630 W 11TH ST UNIT	SE 1/8 - 1/4 (0.174 mi.)	K94	294
GREEN TECH COLLISION EPA ID:: CAL000452307	1800 W 11TH ST UNIT	S 1/8 - 1/4 (0.181 mi.)	N95	297
MIKE'S AUTOMOTIVE EPA ID:: CAL000283562	1800 W 11TH ST STE B	S 1/8 - 1/4 (0.181 mi.)	N96	299
ACE ENGINEERING EPA ID:: CAL000341889	1937 W 11TH ST STE C	SW 1/8 - 1/4 (0.192 mi.)	L104	309
R & A AUTO SOLUTIONS EPA ID:: CAL000449080	779 N BENSON AVE UNI	SE 1/8 - 1/4 (0.227 mi.)	Q117	391
ACE MOTORSPORTS EPA ID:: CAL000379120	779 N BENSON AVE UNI	SE 1/8 - 1/4 (0.227 mi.)	Q119	399
UNIVERSAL NDT INC EPA ID:: CAR000012948	***1844 W 11TH ST UNIT***	***SSW 1/8 - 1/4 (0.237 mi.)***	***R125***	***408***

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 06/22/2020 has revealed that there are 5 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DINEEN TRUCKING Cleanup Status: COMPLETED - CASE CLOSED	***1284 AIRPORT DR***	***NW 1/4 - 1/2 (0.339 mi.)***	***T130***	***427***
UPLAND CITY YARD Cleanup Status: COMPLETED - CASE CLOSED	***1370 N BENSON AVE***	***NNE 1/4 - 1/2 (0.490 mi.)***	***X139***	***462***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAND CARE INC. Cleanup Status: COMPLETED - CASE CLOSED	***8475 LOMA PL***	***S 1/4 - 1/2 (0.305 mi.)***	***129***	***420***
JOHN DOSH	***1853 W ARROW HWY***	***SSW 1/4 - 1/2 (0.367 mi.)***	***U132***	***443***

Cleanup Status: COMPLETED - CASE CLOSED

WESTON E. MONTGOMERY ***2085 W 11TH ST*** ***WSW 1/4 - 1/2 (0.457 mi.)*** ***W137*** ***458***
Cleanup Status: COMPLETED - CASE CLOSED

DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 3 DRYCLEANERS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BENSON TOWN CLEANERS	***1651 W FOOTHILL BLVD***	***NE 1/8 - 1/4 (0.127 mi.)***	***G55***	***163***
Database: DRYCLEANERS, Date of Government Version: 08/06/2020 EPA Id: CAL000191826				
BENSON TOWN CLEANERS	1651 W FOOTHILL BLVD	NE 1/8 - 1/4 (0.127 mi.)	G56	166
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/19/2020				
BENSON TOWN CLEANER	1651 W FOOTHILL BLVD	NE 1/8 - 1/4 (0.127 mi.)	G59	170
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 08/19/2020				

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 5 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DINEEN TRUCKING	***1284 AIRPORT DR***	***NW 1/4 - 1/2 (0.339 mi.)***	***T130***	***427***
Reg Id: 083600599T				
UPLAND CITY YARD	***1370***	***NNE 1/4 - 1/2 (0.490 mi.)***	***X138***	***461***
Reg Id: 083603644T				

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAND CARE INC.	***8475 LOMA PL***	***S 1/4 - 1/2 (0.305 mi.)***	***129***	***420***
Reg Id: 083603600T				
DOSH PROPERTY	***1853 ARROW RT***	***SSW 1/4 - 1/2 (0.367 mi.)***	***U133***	***447***
Reg Id: 083602506T				
WESTON E. MONTGOMERY	***2085 11TH***	***WSW 1/4 - 1/2 (0.457 mi.)***	***W136***	***457***
Reg Id: 083602753T				

HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the HWP list, as provided by EDR, and dated 08/17/2020 has revealed that there is 1 HWP site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAIDLAW ENVIRONMENTA EPA Id: CAT080034184 Cleanup Status: CLOSED	***1369 W 9TH ST***	***SE 1/2 - 1 (0.808 mi.)***	***140***	***471***

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 08/04/2020 has revealed that there are 57 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
UPLAND MERCEDES REPA Facility Status: INACTIVE Facility Id: FA0012801	1785 1/2 W FOOTHILL	NW 0 - 1/8 (0.019 mi.)	B11	16
UPLAND AUTOMOTIVE Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0006949	***1803 W FOOTHILL***	***NNW 0 - 1/8 (0.027 mi.)***	***B13***	***19***
ROUTE 66 AUTO REPAIR Facility Status: ACTIVE Facility Id: FA0011410	***1775 W FOOTHILL BLVD***	***N 0 - 1/8 (0.050 mi.)***	***C32***	***76***
EMPIRE COLLISION CEN Facility Status: INACTIVE Facility Id: FA0008597 Facility Id: FA0005073	1775 1/2 W FOOTHILL	N 0 - 1/8 (0.050 mi.)	C35	85
MEJIA AUTO BODY SHOP Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Status: INACTIVE Facility Id: FA0015132 Facility Id: FA0008598	1775 W FOOTHILL BLVD	N 0 - 1/8 (0.050 mi.)	C36	86
ALL AROUND PEST & TE Facility Status: INACTIVE Facility Id: FA0000821	1810 FOOTHILL BLVD A	WNW 0 - 1/8 (0.095 mi.)	F46	138
DEL TACO #243 Facility Status: INACTIVE Facility Id: FA0012548	1653 W FOOTHILL BLVD	NE 0 - 1/8 (0.101 mi.)	G47	139
JIFFY LUBE #1876 Facility Status: ACTIVE Facility Id: FA0004131	***1640 W FOOTHILL BLVD***	***ENE 0 - 1/8 (0.125 mi.)***	***H54***	***156***
R A PHOTO LAB Facility Status: INACTIVE Facility Id: FA0005515	1651 W FOOTHILL BLVD	NE 1/8 - 1/4 (0.127 mi.)	G58	170
DOLLAR CLEANERS	1630 W FOOTHILL BLVD	E 1/8 - 1/4 (0.130 mi.)	H60	171

Facility Status: INACTIVE Facility Id: FA0002768				
CARL'S JR #270 Facility Status: INACTIVE Facility Id: FA0012456	1610 W FOOTHILL BLVD	E 1/8 - 1/4 (0.160 mi.)	H88	265
CABLE CAR WASH Facility Status: ACTIVE Facility Id: FA0006931	***1639 W FOOTHILL BLVD***	***ENE 1/8 - 1/4 (0.166 mi.)***	***M90***	***266***
LOWES #1041 Facility Status: ACTIVE Facility Id: FA0011737	***1659 W FOOTHILL BLVD***	***NE 1/8 - 1/4 (0.193 mi.)***	***O107***	***321***

Lower Elevation	Address	Direction / Distance	Map ID	Page
JOEL GILLINGWATORS Facility Status: INACTIVE Facility Id: FA0008121	***1784 W FOOTHILL BLVD***	***WSW 0 - 1/8 (0.015 mi.)***	***A8***	***14***
BENRI MOTOR Facility Status: INACTIVE Facility Id: FA0015110	***1710 W FOOTHILL BLVD***	***E 0 - 1/8 (0.034 mi.)***	***D17***	***36***
ROY'S AUTO REPAIR Facility Status: INACTIVE Facility Id: FA0009087	1710 W FOOTHILL BLVD	E 0 - 1/8 (0.034 mi.)	D19	39
TOYLEXURA Facility Status: INACTIVE Facility Id: FA0006759	1710 W FOOTHILL BLVD	E 0 - 1/8 (0.034 mi.)	D26	57
UNDERGROUND AUTOMOTI Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Id: FA0015881	1710 W FOOTHILL BLVD	E 0 - 1/8 (0.034 mi.)	D27	57
VALLEY TRANSMISSIONS Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Status: INACTIVE Facility Id: FA0000293 Facility Id: FA0018259 Facility Id: FA0007029	***1700 W FOOTHILL***	***E 0 - 1/8 (0.053 mi.)***	***D39***	***90***
SPEEDWAY MUFFLER Facility Status: ACTIVE Facility Id: FA0006338	***1700 W FOOTHILL BLVD***	***E 0 - 1/8 (0.053 mi.)***	***D40***	***122***
DAVID SPENCER PAINTI Facility Status: INACTIVE Facility Id: FA0007558	1810 W FOOTHILL BLVD	W 0 - 1/8 (0.106 mi.)	48	139
LARRY BURKE ENTERPRI Facility Status: ACTIVE Facility Id: FA0013664	***822 BERRY CT***	***SW 0 - 1/8 (0.106 mi.)***	***E51***	***144***
ALONSO'S AUTO REPAIR Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0000860	***1820 W 11TH ST UNIT***	***SSW 1/8 - 1/4 (0.138 mi.)***	***I62***	***174***

Facility Id: FA0010641				
HEATH ENTERPRISES	***1820 W 11TH ST UNIT***	***SSW 1/8 - 1/4 (0.138 mi.)***	***I63***	***180***
Facility Status: INACTIVE				
Facility Id: FA0009683				
ALL TRANSMISSION	***1820 W 11TH ST UNIT***	***SSW 1/8 - 1/4 (0.138 mi.)***	***I65***	***184***
Facility Status: ACTIVE				
Facility Id: FA0009684				
UPTOWN AUTO CRAFT,LL	***1824 W 11TH ST STE A***	***SSW 1/8 - 1/4 (0.139 mi.)***	***I66***	***190***
Facility Status: ACTIVE				
Facility Status: FEE EXEMPT				
Facility Status: INACTIVE				
Facility Id: FA0006972				
GREEN TECH COLLISION	***1828 W 11TH ST UNIT***	***SSW 1/8 - 1/4 (0.142 mi.)***	***I69***	***200***
Facility Status: INACTIVE				
Facility Id: FA0014677				
Facility Id: FA0009685				
SUPERIOR SUBARU REPA	***1828 W 11TH ST UNIT***	***SSW 1/8 - 1/4 (0.142 mi.)***	***I71***	***209***
Facility Status: ACTIVE				
Facility Status: INACTIVE				
Facility Id: FA0006550				
Facility Id: FA0001136				
LLOYD MOSHER ENTERPR	1830 W 11TH ST UNIT	SSW 1/8 - 1/4 (0.143 mi.)	I72	214
Facility Status: INACTIVE				
Facility Id: FA0004452				
AL & LEES AUTO CARE	***1830 WEST 11TH ST #A***	***SSW 1/8 - 1/4 (0.143 mi.)***	***I73***	***214***
Facility Status: INACTIVE				
Facility Id: FA0006888				
WEST WORKS	1838 W 11TH UNIT D	SSW 1/8 - 1/4 (0.146 mi.)	I77	230
Facility Status: ACTIVE				
Facility Id: FA0007262				
SIERRA AUTO BODY & P	1838 W 11TH ST E	SSW 1/8 - 1/4 (0.146 mi.)	I78	231
Facility Status: INACTIVE				
Facility Id: FA0006171				
MORE THAN JUST CARS,	1842 W 11TH ST C	SSW 1/8 - 1/4 (0.150 mi.)	I81	236
Facility Status: INACTIVE				
Facility Id: FA0004848				
LEMCO PRECISION INC.	1842 W 11TH ST	SSW 1/8 - 1/4 (0.150 mi.)	I82	237
Facility Status: INACTIVE				
Facility Id: FA0004413				
PARAGON FLUID POWER	***687 N BENSON AVE E &***	***ESE 1/8 - 1/4 (0.154 mi.)***	***J83***	***237***
Facility Status: ACTIVE				
Facility Id: FA0007592				
OTT PRECISION MACHIN	***1658 W 11TH ST STE J***	***SSE 1/8 - 1/4 (0.158 mi.)***	***K84***	***248***
Facility Status: INACTIVE				
Facility Id: FA0005133				
CREATIVE CARVINGS	1658 W 11TH ST H	SSE 1/8 - 1/4 (0.158 mi.)	K85	260
Facility Status: INACTIVE				
Facility Id: FA0002535				
AT&T MOBILITY - (USI	***1837 W 11TH ST***	***SW 1/8 - 1/4 (0.158 mi.)***	***L87***	***263***

Facility Status: ACTIVE Facility Id: FA0011855				
A FOOTHILL AUTO SERV Facility Status: ACTIVE Facility Id: FA0000051	***939 N BENSON AVE***	***E 1/8 - 1/4 (0.173 mi.)***	***J93***	***284***
GREEN TECH COLLISION Facility Status: ACTIVE Facility Id: FA0018481	1800 W 11 TH STE A	S 1/8 - 1/4 (0.181 mi.)	N97	302
MIKE'S AUTOMOTIVE Facility Status: ACTIVE Facility Id: FA0008439	***1800 W 11 TH STE B***	***S 1/8 - 1/4 (0.181 mi.)***	***N98***	***302***
AL & LEE'S AUTO CARE Facility Status: ACTIVE Facility Id: FA0000794	1830 W 11TH ST A&B	SSW 1/8 - 1/4 (0.181 mi.)	I99	305
WALTON FABRICATION Facility Status: INACTIVE Facility Id: FA0006699	1933 W 11TH ST UNIT	SW 1/8 - 1/4 (0.184 mi.)	L101	308
CJ MEDIA Facility Status: INACTIVE Facility Id: FA0013395	1933 W 11TH ST UNIT	SW 1/8 - 1/4 (0.184 mi.)	L102	308
KENGRAPHICS PRINTING Facility Status: INACTIVE Facility Id: FA0004243	1935 W 11TH ST A	SW 1/8 - 1/4 (0.189 mi.)	L103	309
CALAWAY & BROOKS INC Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0010633	***1937 W 11TH ST STE F***	***SW 1/8 - 1/4 (0.192 mi.)***	***L105***	***312***
CATTRAC CONSTRUCTION Facility Status: INACTIVE Facility Id: FA0013167 Facility Id: FA0004005	***1953 W 11TH ST***	***SW 1/8 - 1/4 (0.215 mi.)***	***P111***	***380***
T & C SMALL ENGINES Facility Status: INACTIVE Facility Id: FA0006578	1777 WOODLAWN ST G-2	S 1/8 - 1/4 (0.223 mi.)	N112	381
M.B. AUTOMOTIVE INC. Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0004530 Facility Id: FA0007180	***1777 WOODLAWN ST STE***	***S 1/8 - 1/4 (0.223 mi.)***	***N113***	***382***
HARDING'S AUTOMOTIVE Facility Status: INACTIVE Facility Id: FA0015586	1777 WOODLAWN ST G14	S 1/8 - 1/4 (0.223 mi.)	N114	390
DELISLE CUSTOM PRODU Facility Status: INACTIVE Facility Id: FA0011290	1777 WOODLAWN ST UNI	S 1/8 - 1/4 (0.223 mi.)	N115	390
REDLINE CORVETTE PAR Facility Status: INACTIVE Facility Id: FA0011284	1777 WOODLAWN ST G4	S 1/8 - 1/4 (0.223 mi.)	N116	391
GEAR IT UP	779 N BENSON AVE UNI	SE 1/8 - 1/4 (0.227 mi.)	Q120	402

Facility Status: INACTIVE Facility Id: FA0014893				
PIERRE'S AUTO CLINIC Facility Status: ACTIVE Facility Id: FA0014356	779 N BENSON UNIT H	SE 1/8 - 1/4 (0.227 mi.)	Q121	402
MASTER SIGN Facility Status: INACTIVE Facility Id: FA0004610	1846 W 11TH ST UNIT	SSW 1/8 - 1/4 (0.236 mi.)	R123	405
UPLAND MERCEDES REPA Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Id: FA0013653	***923 CENTRAL AVE***	***W 1/8 - 1/4 (0.246 mi.)***	***S127***	***415***
R & R ROTARY Facility Status: INACTIVE Facility Id: FA0005182	933 CENTRAL D	W 1/8 - 1/4 (0.246 mi.)	S128	420

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: 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.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 4 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FLIEDER MAUS	1775 W FOOTHILL BLVD	N 0 - 1/8 (0.050 mi.)	C34	84

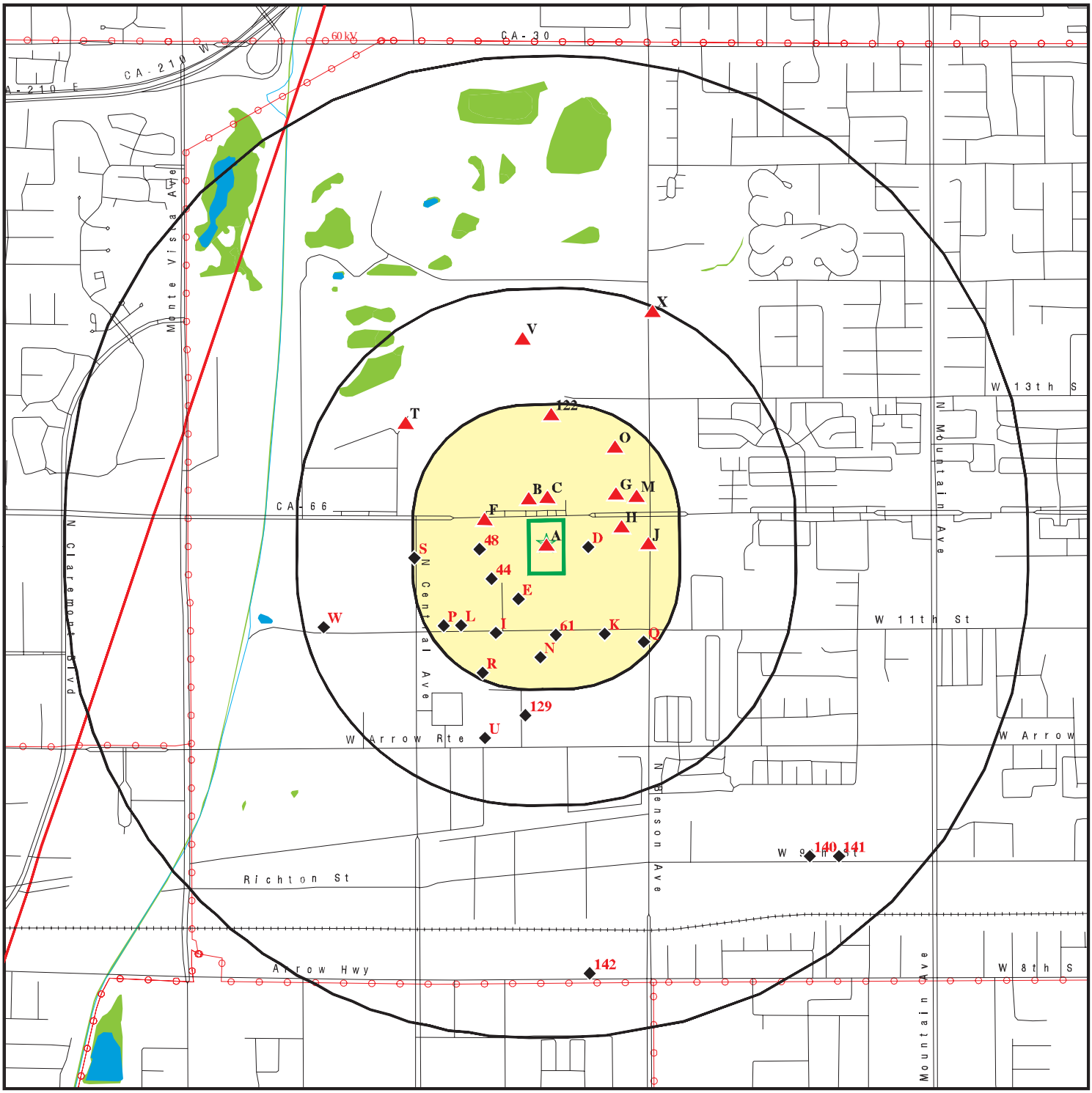
Lower Elevation	Address	Direction / Distance	Map ID	Page
MOHS ROBERT	1784 W FOOTHILL BLVD	WSW 0 - 1/8 (0.015 mi.)	A9	15
VALLEY TRANSMISSIONS	1700 W FOOTHILL BLVD	E 0 - 1/8 (0.053 mi.)	D38	89
FUEL MRKT	888 BERRY CT	WSW 0 - 1/8 (0.081 mi.)	44	135

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 13 records.

Site Name	Database(s)
TERRY'S SHELL	LUST, HIST CORTESE
	CDL
	CDL
	CDL
SUNRISE CLEANER	DRYCLEANERS
LUSTRE CLEANERS	DRYCLEANERS
SUNRISE CLEANERS, NAM KI KIM DBA	DRYCLEANERS
LUSTRE CLEANERS	DRYCLEANERS
LUSTRE CLEANERS	DRYCLEANERS
LUSTRE CLEANERS	DRYCLEANERS
LUSTRE CLEANERS	DRYCLEANERS
SUNRISE CLEANER	DRYCLEANERS
THRIFTY OIL # / ARCO # 9691	LUST

OVERVIEW MAP - 6325775.2S



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
- County Boundary
- 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:	West Foothill Boulevard Upland	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	1750 - 1780 West Foothill Boulevard UPLAND CA 91786	CONTACT:	Cristina Scott
LAT/LONG:	34.105945 / 117.684771	INQUIRY #:	6325775.2s
		DATE:	January 11, 2021 11:09 am

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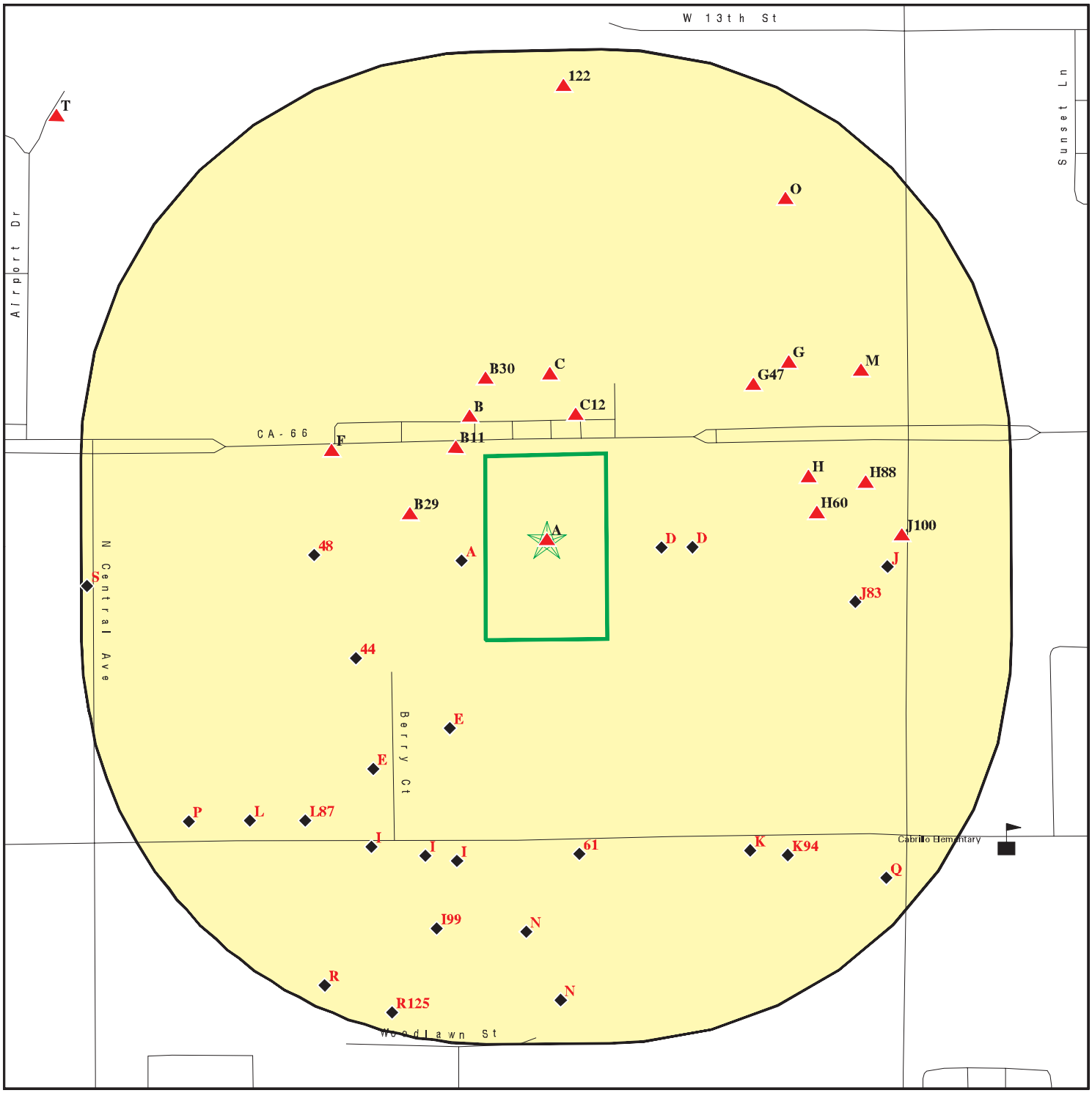
DETAIL MAP - 6325775.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- 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:	West Foothill Boulevard Upland	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	1750 - 1780 West Foothill Boulevard UPLAND CA 91786	CONTACT:	Cristina Scott
LAT/LONG:	34.105945 / 117.684771	INQUIRY #:	6325775.2s
		DATE:	January 11, 2021 11:13 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	1	NR	NR	1
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	1	NR	NR	NR	1
RCRA-SQG	0.250		9	5	NR	NR	NR	14
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	1	3	NR	4
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		0	0	9	NR	NR	9

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
AST	0.250		1	2	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
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	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		5	15	NR	NR	NR	20
US CDL	TP		NR	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	2	NR	NR	NR	6
HIST UST	0.250	3	4	2	NR	NR	NR	9
CA FID UST	0.250	2	2	1	NR	NR	NR	5
CERS TANKS	0.250		1	2	NR	NR	NR	3
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		15	19	NR	NR	NR	34
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	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	5	NR	NR	5
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	3	NR	NR	NR	3
EMI	TP	1	NR	NR	NR	NR	NR	1
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	1	NR	NR	NR	NR	NR	1
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	5	NR	NR	5
HWP	1.000		0	0	0	1	NR	1
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	TP		NR	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250		17	40	NR	NR	NR	57
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
MINES MRDS	TP		NR	NR	NR	NR	NR	0
HWTS	TP	1	NR	NR	NR	NR	NR	1
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		4	NR	NR	NR	NR	4
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		10	60	93	21	4	0	188

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
Target
Property

FENCE CRAFT OF UPLAND, INC
1780 W FOOTHILL BLVD
UPLAND, CA 91786

SWEEPS UST **S101619065**
CA FID UST **N/A**

Site 1 of 10 in cluster A

Actual:
1344 ft.

SWEEPS UST:

Name:	FENCE CRAFT OF UPLAND, INC
Address:	1780 W FOOTHILL BLVD
City:	UPLAND
Status:	Not reported
Comp Number:	17811
Number:	Not reported
Board Of Equalization:	44-020659
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-017811-000001
Tank Status:	Not reported
Capacity:	1800
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

Name:	FENCE CRAFT OF UPLAND, INC
Address:	1780 W FOOTHILL BLVD
City:	UPLAND
Status:	Active
Comp Number:	17811
Number:	1
Board Of Equalization:	44-020659
Referral Date:	03-27-90
Action Date:	03-27-90
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	36001473
Regulated By:	UTNKA
Regulated ID:	00017811
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	1780 W FOOTHILL BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	UPLAND 91786
Contact:	Not reported

FENCE CRAFT OF UPLAND, INC (Continued) **S101619065**

Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

A2 **INTRAVAIA ROCK & SAND** **HIST UST** **U001570680**
Target **1770 W FOOTHILL BLVD** **N/A**
Property **UPLAND, CA 91786**

Site 2 of 10 in cluster A

Actual: **1344 ft.**

HIST UST:
Name: INTRAVAIA ROCK & SAND
Address: 1770 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000019230
Facility Type: Other
Other Type: TRUCKING CO.
Contact Name: IGGY INTRAVAIA
Telephone: 7149826713
Owner Name: IGNAZIO INTRAVAIA
Owner Address: 1770 W. FOOTHILL BLVD.
Owner City,St,Zip: UPLAND, CA 91786
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1977
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

A3 **FENCE CRAFT OF UPLAND** **HIST UST** **U001570671**
Target **1780 W FOOTHILL BLVD** **N/A**
Property **UPLAND, CA 91786**

Site 3 of 10 in cluster A

Actual: **1344 ft.**

HIST UST:
Name: FENCE CRAFT OF UPLAND
Address: 1780 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
File Number: 00029E8E
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029E8E.pdf
Region: STATE
Facility ID: 00000017811
Facility Type: Other
Other Type: FENCE INSTALLATION &
Contact Name: JAMES H. SPEARS

FENCE CRAFT OF UPLAND (Continued) **U001570671**

Telephone:	7149817095
Owner Name:	FENCE CRAFT OF UPLAND
Owner Address:	1780 W. FOOTHILL BLVD.
Owner City,St,Zip:	UPLAND, CA 91786
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00001800
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Visual, None

Click here for Geo Tracker PDF:

A4 Target Property **INTRAVAIA ROCK & SAND**
1770 W FOOTHILL BLVD
UPLAND, CA 91786

SWEEPS UST **S101619070**
HIST UST **N/A**
CA FID UST

Site 4 of 10 in cluster A

Actual: 1344 ft.

SWEEPS UST:

Name:	INTRAVAIA ROCK & SAND
Address:	1770 W FOOTHILL BLVD
City:	UPLAND
Status:	Not reported
Comp Number:	19230
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-019230-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	1

HIST UST:

Name:	INTRAVAIA ROCK AND SAND
Address:	1770 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
File Number:	00029FE4
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029FE4.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

INTRAVAIA ROCK & SAND (Continued) **S101619070**

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:	36001023
Regulated By:	UTNKI
Regulated ID:	00019230
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	1770 W FOOTHILL BLVD
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

A5 **INTRAVAIA ROCK & SAND** **EMI** **S106833129**
Target **1770 W. FOOTHILL BLVD.** **N/A**
Property **UPLAND, CA 91786**

Site 5 of 10 in cluster A

Actual:
1344 ft.

EMI:

Name:	INTRAVAIA ROCK & SAND
Address:	1770 W. FOOTHILL BLVD.
City,State,Zip:	UPLAND, CA 91786
Year:	1987
County Code:	36
Air Basin:	SC
Facility ID:	23546
Air District Name:	SC
SIC Code:	1442
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

INTRAVAIA ROCK & SAND (Continued) **S106833129**

SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 2
Part. Matter 10 Micrometers and Smllr Tons/Yr: 1

A6 **1X FENCECRAFT** **HAZNET** **S123724364**
Target **1780 W. FOOTHILL BLVD.** **HWTS** **N/A**
Property **UPLAND, CA 91786**

Site 6 of 10 in cluster A

Actual:
1344 ft.

HAZNET:

Name:	1X FENCECRAFT
Address:	1780 W. FOOTHILL BLVD.
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
Contact:	PAT KEENEY-GEN. MGR.
Telephone:	7149817095
Mailing Name:	Not reported
Mailing Address:	1780 W. FOOTHILL BLVD.
Year:	1990
Gepaid:	CAC000252697
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	0.417

HWTS:

Name:	1X FENCECRAFT
Address:	1780 W. FOOTHILL BLVD.
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAC000252697
Inactive Date:	10/25/2000
Create Date:	02/22/1990
Last Act Date:	10/25/2000
Mailing Name:	Not reported
Mailing Address:	1780 W. FOOTHILL BLVD.
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917860000
Owner Name:	JAMES SPEARS
Owner Address:	--
Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	PAT KEENEY-GEN. MGR.
Contact Address:	--
Contact Address 2:	Not reported
City,State,Zip:	--, 99 --

A7
WSW
< 1/8
0.015 mi.
78 ft.

JOEL GILLINGWATORS
1784 WEST FOOTHILL BLVD
UPLAND, CA 91786

Site 7 of 10 in cluster A

HIST UST **S118411708**
N/A

Relative:
Lower

Actual:
1340 ft.

HIST UST:

Name:	JOEL GILLINGWATORS
Address:	1784 WEST FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
File Number:	0002A070
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A070.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:

A8
WSW
< 1/8
0.015 mi.
78 ft.

JOEL GILLINGWATORS
1784 W FOOTHILL BLVD
UPLAND, CA 91786

Site 8 of 10 in cluster A

HIST UST **U001570682**
San Bern. Co. Permit **N/A**

Relative:
Lower

Actual:
1340 ft.

HIST UST:

Name:	JOEL GILLINGWATORS
Address:	1784 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000064519
Facility Type:	Other
Other Type:	RANCH USE
Contact Name:	Not reported
Telephone:	7149828665
Owner Name:	JOEL GILLINGWATORS
Owner Address:	1090 TERRACE DRIVE
Owner City,St,Zip:	UPLAND, CA 91786
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1980

JOEL GILLINGWATORS (Continued) **U001570682**

Tank Capacity: 00002000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 6
Leak Detection: Stock Inventor

San Bern. Co. Permit:
Name: MALCOLM BODLEY
Address: 1784 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0008121
Owner: MALCOLM, BODLEY N.
Permit Number: PT0014219
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2002

Name: MALCOLM BODLEY
Address: 1784 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0008121
Owner: MALCOLM, BODLEY N.
Permit Number: PT0014220
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 05/31/2002

A9 **MOHS ROBERT** **EDR Hist Auto** **1020675519**
WSW **1784 W FOOTHILL BLVD** **N/A**
< 1/8 **UPLAND, CA 91786**
0.015 mi.
78 ft. **Site 9 of 10 in cluster A**

Relative: EDR Hist Auto
Lower

Actual: **1340 ft.**

Year:	Name:	Type:
1989	MINI TRUCK SHOP	General Automotive Repair Shops
1989	A&M TOWING & BODY SHOP	General Automotive Repair Shops
1991	A&M TOWING & BODY SHOP	General Automotive Repair Shops
1991	MINI TRUCK SHOP	General Automotive Repair Shops
1992	A&M TOWING & BODY SHOP	General Automotive Repair Shops
1992	MINI TRUCK SHOP	General Automotive Repair Shops
1993	A&M TOWING & BODY SHOP	General Automotive Repair Shops
1993	MINI TRUCK SHOP	General Automotive Repair Shops
2012	ROUTE 66 FOOTHILL LLC	Gasoline Service Stations, NEC

A10
WSW
< 1/8
0.015 mi.
78 ft.

JOEL GILLINGWATORS
1784 W FOOTHILL BLVD
UPLAND, CA 91786

SWEEPS UST
CA FID UST

S101619071
N/A

Site 10 of 10 in cluster A

Relative:
Lower

Actual:
1340 ft.

SWEEPS UST:

Name:	JOEL GILLINGWATORS
Address:	1784 W FOOTHILL BLVD
City:	UPLAND
Status:	Active
Comp Number:	64519
Number:	9
Board Of Equalization:	44-021390
Referral Date:	07-06-88
Action Date:	07-06-88
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-064519-000001
Tank Status:	A
Capacity:	2000
Active Date:	07-06-88
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	1

CA FID UST:

Facility ID:	36006231
Regulated By:	UTNKA
Regulated ID:	00064519
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	1090 TERRACE DR
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

B11
NW
< 1/8
0.019 mi.
100 ft.

UPLAND MERCEDES REPAIR
1785 1/2 W FOOTHILL BLVD
UPLAND, CA 91786

San Bern. Co. Permit

S110071627
N/A

Site 1 of 5 in cluster B

Relative:
Higher

Actual:
1355 ft.

San Bern. Co. Permit:

Name:	UPLAND MERCEDES REPAIR
Address:	1785 1/2 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0012801
Owner:	AWADALLA, ASSAAD

UPLAND MERCEDES REPAIR (Continued) **S110071627**

Permit Number: PT0022363
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 10/31/2011

Name: UPLAND MERCEDES REPAIR
Address: 1785 1/2 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0012801
Owner: AWADALLA, ASSAAD
Permit Number: PT0022364
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 10/31/2011

C12 **RTR AUTO SALES** **RCRA NonGen / NLR** **1025850796**
NNE **1747 W FOOTHILL BLVD** **CAC003030896**
< 1/8 **UPLAND, CA 91786**
0.025 mi.
131 ft. **Site 1 of 8 in cluster C**

Relative: **Higher**

Actual: **1358 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-08-23 00:00:00.0
Handler Name:	RTR AUTO SALES	
Handler Address:		1747 W FOOTHILL BLVD
Handler City,State,Zip:		UPLAND, CA 91786-3535
EPA ID:		CAC003030896
Contact Name:		ROLAND DAGHER
Contact Address:		PO BOX 1715
Contact City,State,Zip:		CLAREMONT, CA 91711
Contact Telephone:		909-303-3733
Contact Fax:		Not reported
Contact Email:		RTRAUTOSALES@OUTLOOK.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:		PO BOX 1715
Mailing City,State,Zip:		CLAREMONT, CA 91711
Owner Name:		ROLAND DAGHER
Owner Type:		Other
Operator Name:		ROLAND DAGHER
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

RTR AUTO SALES (Continued) **1025850796**

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:	2019-09-10 12:40:21.0
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:	ROLAND DAGHER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 1715
Owner/Operator City,State,Zip:	CLAREMONT, CA 91711

RTR AUTO SALES (Continued) **1025850796**

Owner/Operator Telephone: 909-303-3733
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ROLAND DAGHER
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 1715
Owner/Operator City,State,Zip: CLAREMONT, CA 91711
Owner/Operator Telephone: 909-303-3733
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-08-23 00:00:00.0
Handler Name: RTR AUTO SALES
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: 44112
NAICS Description: USED CAR DEALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B13 **UPLAND AUTOMOTIVE** **RCRA-SQG** **1000594892**
NNW **1803 W FOOTHILL** **CERS HAZ WASTE** **CAD983587767**
< 1/8 **UPLAND, CA 91786** **FINDS**
0.027 mi. **ECHO**
141 ft. **Site 2 of 5 in cluster B** **San Bern. Co. Permit**
CERS

Relative:
Higher

Actual:
1358 ft.

RCRA-SQG:
Date Form Received by Agency: 1991-06-28 00:00:00.0
Handler Name: UPLAND AUTOMOTIVE
Handler Address: 1803 W FOOTHILL
Handler City,State,Zip: UPLAND, CA 91786
EPA ID: CAD983587767
Contact Name: WILLIAM SMITH

UPLAND AUTOMOTIVE (Continued) **1000594892**

Contact Address:	1803 W FOOTHILL
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	714-985-8514
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
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:	CA
State District:	4
Mailing Address:	1803 W FOOTHILL
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	WILLIAM SMITH
Owner Type:	Private
Operator Name:	NOT REQUIRED
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:	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

UPLAND AUTOMOTIVE (Continued) **1000594892**

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:	2002-06-27 03:35:19.0
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:	WILLIAM SMITH
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:	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:	1991-06-28 00:00:00.0
Handler Name: UPLAND AUTOMOTIVE	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
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

UPLAND AUTOMOTIVE (Continued) **1000594892**

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

CERS HAZ WASTE:
Name: UPLAND AUTOMOTIVE
Address: 1803 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 164930
CERS ID: 10046026
CERS Description: Hazardous Waste Generator

FINDS:
Registry ID: 110002848116

Click Here:

Environmental Interest/Information System:
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.
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.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000594892
Registry ID: 110002848116
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002848116
Name: UPLAND AUTOMOTIVE
Address: 1803 W FOOTHILL
City,State,Zip: UPLAND, CA 91786

San Bern. Co. Permit:
Name: UPLAND AUTOMOTIVE
Address: 1803 W FOOTHILL BLVD

UPLAND AUTOMOTIVE (Continued) **1000594892**

City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006949
Owner: SMITH, WILLIAM
Permit Number: PT0007676
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2021

Name: UPLAND AUTOMOTIVE
Address: 1803 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006949
Owner: SMITH, WILLIAM
Permit Number: PT0007675
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2021

Name: UPLAND AUTOMOTIVE
Address: 1803 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006949
Owner: SMITH, WILLIAM
Permit Number: PT0023296
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 05/31/2011

CERS:
Name: UPLAND AUTOMOTIVE
Address: 1803 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 164930
CERS ID: 10046026
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 164930
Site Name: UPLAND AUTOMOTIVE
Violation Date: 04-21-2016
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 06/28/2016. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Hazardous waste containers not labeled.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 164930
Site Name: UPLAND AUTOMOTIVE
Violation Date: 04-21-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter

UPLAND AUTOMOTIVE (Continued) **1000594892**

	6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 06/28/2016. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Accumulation start date missing.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	164930
Site Name:	UPLAND AUTOMOTIVE
Violation Date:	04-21-2016
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 07/01/2016. Failure to obtain an EPA ID Number (CCR 66262.12(a)) EPA ID number not active.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	164930
Site Name:	UPLAND AUTOMOTIVE
Violation Date:	04-21-2016
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 04/21/2016. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) Accumulation time could not be determined on hazardous waste.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	164930
Site Name:	UPLAND AUTOMOTIVE
Violation Date:	01-17-2019
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 and accurate on or before the annual due date.
Violation Notes:	OBSERVATION: At time of inspection, the last Business Plan submitted to the California Environmental Reporting System (CERS) was 10/23/17. CORRECTIVE ACTION: Review and certify the business plan annually.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	164930
Site Name:	UPLAND AUTOMOTIVE
Violation Date:	04-21-2016
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.

UPLAND AUTOMOTIVE (Continued) **1000594892**

Violation Notes: Returned to compliance on 06/28/2016. Facility did not submit a Business Plan via CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 164930
Site Name: UPLAND AUTOMOTIVE
Violation Date: 04-21-2016
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 06/28/2016. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Waste containers not labeled.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 164930
Site Name: UPLAND AUTOMOTIVE
Violation Date: 04-21-2016
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 06/28/2016. Drained used oil filters missing accumulation start date.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 164930
Site Name: UPLAND AUTOMOTIVE
Violation Date: 04-21-2016
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 04/21/2016. Failure to maintain used oil disposal receipts for at least 3 years (CHSC 25160.2(b)(3)) Disposal records not available for review at time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-17-2019
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: 01-17-2019
Violations Found: Yes

UPLAND AUTOMOTIVE (Continued) **1000594892**

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: 04-21-2016
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: 04-21-2016
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
Eval Source: CERS

Enforcement Action:
Site ID: 164930
Site Name: UPLAND AUTOMOTIVE
Site Address: 1803 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-21-2016
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: 164930
Site Name: UPLAND AUTOMOTIVE
Site Address: 1803 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-21-2016
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

Coordinates:
Site ID: 164930
Facility Name: UPLAND AUTOMOTIVE
Env Int Type Code: HMBP
Program ID: 10046026

UPLAND AUTOMOTIVE (Continued) **1000594892**

Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.107055
Longitude: -117.685465

Affiliation:
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: William Smith
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: 1803 WEST FOOTHILL BLVD
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: UPLAND AUTOMOTIVE
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) 985-8514

Affiliation Type Desc: Parent Corporation
Entity Name: UPLAND AUTOMOTIVE
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

UPLAND AUTOMOTIVE (Continued) **1000594892**

Entity Name:	WILLIAM SMITH
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:	SMITH, WILLIAM
Entity Title:	Not reported
Affiliation Address:	1803 W FOOTHILL BLVD
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 985-8514
Affiliation Type Desc:	Environmental Contact
Entity Name:	WILLIAM SMITH
Entity Title:	Not reported
Affiliation Address:	1803 W FOOTHILL
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

B14 **UPLAND AUTOMOTIVE** **RCRA NonGen / NLR** **1024785965**
NNW **1803 W FOOTHILL BLVD** **CAL000010034**
< 1/8 **UPLAND, CA 91786**
0.027 mi.
141 ft. **Site 3 of 5 in cluster B**

Relative: **Higher**

Actual: **1358 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		1989-11-14 00:00:00.0
Handler Name:	UPLAND AUTOMOTIVE	
Handler Address:		1803 W FOOTHILL BLVD
Handler City,State,Zip:		UPLAND, CA 91786-0000
EPA ID:		CAL000010034
Contact Name:		WILLIAM SMITH
Contact Address:		1803 W FOOTHILL BLVD
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-985-8514
Contact Fax:		909-985-1925
Contact Email:		UCSB_GSMITH@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:		Handler Activities
State District Owner:		Not reported
State District:		Not reported

UPLAND AUTOMOTIVE (Continued) **1024785965**

Mailing Address:	1803 W FOOTHILL BLVD
Mailing City,State,Zip:	UPLAND, CA 91786-0000
Owner Name:	WILLIAM J SMITH
Owner Type:	Other
Operator Name:	WILLIAM SMITH
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:	2018-09-05 15:40:53.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No

UPLAND AUTOMOTIVE (Continued) **1024785965**

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:	WILLIAM J SMITH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	477 W SOLANO ST
Owner/Operator City,State,Zip:	UPLAND, CA 91784-1433
Owner/Operator Telephone:	909-982-7316
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WILLIAM SMITH
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1803 W FOOTHILL BLVD
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-985-8514
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1989-11-14 00:00:00.0
Handler Name: UPLAND AUTOMOTIVE	
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

D15 **1 STOP AUTO CARE** **RCRA NonGen / NLR** **1026491153**
East **1710 W FOOTHILL BLVD STE A3** **CAL000455900**
< 1/8 **UPLAND, CA 91786**
0.034 mi.
179 ft. **Site 1 of 17 in cluster D**

Relative: **Lower**

Actual: **1343 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-07-28 00:00:00.0
Handler Name:	1 STOP AUTO CARE
Handler Address:	1710 W FOOTHILL BLVD STE A3
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000455900
Contact Name:	JOSEPH KHADER
Contact Address:	1710 W FOOTHILL BLVD STE A3
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	909-780-4028
Contact Fax:	Not reported
Contact Email:	17AOK17@GMAIL.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:	1710 W FOOTHILL BLVD
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	JOSEPH KHADER
Owner Type:	Other
Operator Name:	JOSEPH KHADER
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

1 STOP AUTO CARE (Continued) **1026491153**

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:	2020-08-14 15:10:43.0
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:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOSEPH KHADER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4044 4TH AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92407
Owner/Operator Telephone:	909-780-4028
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOSEPH KHADER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1710 W FOOTHILL BLVD STE A3
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-780-4028
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

1 STOP AUTO CARE (Continued) **1026491153**

Historic Generators:
Receive Date: 2020-07-28 00:00:00.0
Handler Name: 1 STOP AUTO CARE
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

D16 **MAGNA AND MAGNA** **RCRA NonGen / NLR** **1024748543**
East **1710 W FOOTHILL** **CAC002968323**
< 1/8 **UPLAND, CA 91786**
0.034 mi.
179 ft. **Site 2 of 17 in cluster D**

Relative: **Lower**
Actual: **1343 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2018-06-27 00:00:00.0
Handler Name: MAGNA AND MAGNA
Handler Address: 1710 W FOOTHILL
Handler City,State,Zip: UPLAND, CA 91786
EPA ID: CAC002968323
Contact Name: MARK MAGNA
Contact Address: P.O. BOX 1485
Contact City,State,Zip: WHITTIER, CA 90609
Contact Telephone: 310-963-0749
Contact Fax: Not reported
Contact Email: MARK@MARKESTINC.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: P.O. BOX 1485
Mailing City,State,Zip: WHITTIER, CA 90609
Owner Name: MAGNA AND MAGNA

MAGNA AND MAGNA (Continued) **1024748543**

Owner Type:	Other
Operator Name:	MARK MAGNA
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:	2018-08-31 17:14:35.0
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

MAGNA AND MAGNA (Continued) **1024748543**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: MARK MAGNA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: P.O. BOX 1485
Owner/Operator City,State,Zip: WHITTIER, CA 90609
Owner/Operator Telephone: 310-963-0749
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MAGNA AND MAGNA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: P.O. BOX 1485
Owner/Operator City,State,Zip: WHITTIER, CA 90609
Owner/Operator Telephone: 310-963-0749
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2018-06-27 00:00:00.0
Handler Name: MAGNA AND MAGNA
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

D17 **BENRI MOTOR** **San Bern. Co. Permit** **S113883384**
East **1710 W FOOTHILL BLVD STE A2** **HWTS** **N/A**
< 1/8 **UPLAND, CA 91786**
0.034 mi.
179 ft. **Site 3 of 17 in cluster D**

Relative:
Lower

Actual:
1343 ft.

San Bern. Co. Permit:

Name:	BENRI MOTOR
Address:	1710 W FOOTHILL BLVD STE A2
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0015110
Owner:	JEFF SANGARI
Permit Number:	PT0026343
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	09/30/2015

Name:	BENRI MOTOR
Address:	1710 W FOOTHILL BLVD STE A2
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0015110
Owner:	JEFF SANGARI
Permit Number:	PT0026342
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	09/30/2015

HWTS:

Name:	BENRI MOTOR
Address:	1710 W FOOTHILL BLVD STE A2
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917863553
EPA ID:	CAL000387783
Inactive Date:	06/30/2015
Create Date:	07/26/2013
Last Act Date:	01/27/2016
Mailing Name:	Not reported
Mailing Address:	1710 W FOOTHILL BLVD STE A2
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917863553
Owner Name:	JEFFRY SANGARI
Owner Address:	1710 W FOOTHILL BLVD STE A2
Owner Address 2:	Not reported
Owner City,State,Zip:	UPLAND, CA 917863553
Contact Name:	JEFFRY SANGARI
Contact Address:	1710 W FOOTHILL BLVD STE A2
Contact Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917863553

NAICS:

EPA ID:	CAL000387783
Create Date:	2013-07-26 11:44:12.240
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2013-07-26 11:44:12.24000
Inactive Date:	2015-06-30 00:00:00
Facility Name:	BENRI MOTOR

BENRI MOTOR (Continued) **S113883384**

Facility Address:	1710 W FOOTHILL BLVD STE A2
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	917863553

D18 **UPLAND 1 AUTO & MACHINE SHOP** **RCRA NonGen / NLR** **1024867534**
East **1710 W FOOTHILL BLVD STE A3** **CAL000436129**
< 1/8 **UPLAND, CA 91786**
0.034 mi.
179 ft. **Site 4 of 17 in cluster D**

Relative: **Lower**
Actual: **1343 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-05-16 00:00:00.0
Handler Name:	UPLAND 1 AUTO & MACHINE SHOP
Handler Address:	1710 W FOOTHILL BLVD STE A3
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000436129
Contact Name:	FERNANDO REYES
Contact Address:	1945 E OLIVE ST
Contact City,State,Zip:	ONTARIO, CA 91764
Contact Telephone:	909-215-4559
Contact Fax:	Not reported
Contact Email:	F_REYES15@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:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1710 W FOOTHILL BLVD STE A3
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	FERNANDO REYES
Owner Type:	Other
Operator Name:	FERNANDO REYES
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

UPLAND 1 AUTO & MACHINE SHOP (Continued) **1024867534**

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 19:38:11.0
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:	FERNANDO REYES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1945 E OLIVE ST
Owner/Operator City,State,Zip:	ONTARIO, CA 91764
Owner/Operator Telephone:	909-215-4559
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	FERNANDO REYES
Legal Status:	Other

UPLAND 1 AUTO & MACHINE SHOP (Continued) **1024867534**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1945 E OLIVE ST
Owner/Operator City,State,Zip:	ONTARIO, CA 91764
Owner/Operator Telephone:	909-215-4559
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-05-16 00:00:00.0
Handler Name:	UPLAND 1 AUTO & MACHINE 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:	811111
NAICS Description:	GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

D19 **ROY'S AUTO REPAIR** **San Bern. Co. Permit** **S113035814**
East **1710 W FOOTHILL BLVD D14-STE. D14-2400** **N/A**
< 1/8 **UPLAND, CA 91786**
0.034 mi.
179 ft. **Site 5 of 17 in cluster D**

Relative: **Lower**

Actual: **1343 ft.**

San Bern. Co. Permit:

Name:	ROY'S AUTO REPAIR
Address:	1710 W FOOTHILL BLVD D14-STE. D14-2400
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0009087
Owner:	KHOSROW NOOROHANI
Permit Number:	PT0015134
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2005

Name:	ROY'S AUTO REPAIR
Address:	1710 W FOOTHILL BLVD D14-STE. D14-2400
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO

ROY'S AUTO REPAIR (Continued) **S113035814**

Facility ID: FA0009087
Owner: KHOSROW NOOROHANI
Permit Number: PT0015133
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 08/31/2005

D20 **UNDERGROUND AUTOMOTIVE** **RCRA NonGen / NLR** **1024862070**
East **1710 W FOOTHILL BLVD UNIT D11** **CAL000430578**
< 1/8 **UPLAND, CA 91786**
0.034 mi.
179 ft. **Site 6 of 17 in cluster D**

Relative: **Lower**
Actual: **1343 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2017-09-11 00:00:00.0
Handler Name:	UNDERGROUND AUTOMOTIVE
Handler Address:	1710 W FOOTHILL BLVD UNIT D11
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000430578
Contact Name:	JEFF LEWIS
Contact Address:	PO BOX 1752
Contact City,State,Zip:	RANCHO CUCAMONGA, CA 91729
Contact Telephone:	909-946-3739
Contact Fax:	909-946-3739
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:	1710 W FOOTHILL BLVD UNIT D11
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	JEFF LEWIS
Owner Type:	Other
Operator Name:	JEFF LEWIS
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:	---

UNDERGROUND AUTOMOTIVE (Continued) **1024862070**

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 19:36:34.0
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:	JEFF LEWIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 1752
Owner/Operator City,State,Zip:	RANCHO CUCAMONGA, CA 91729
Owner/Operator Telephone:	909-946-3739
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JEFF LEWIS
Legal Status:	Other
Date Became Current:	Not reported

UNDERGROUND AUTOMOTIVE (Continued) **1024862070**

Date Ended Current:	Not reported
Owner/Operator Address:	32000 RIVERSIDE DR #B9
Owner/Operator City,State,Zip:	LAKE ELSINORE, CA 92530
Owner/Operator Telephone:	909-297-6963
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2017-09-11 00:00:00.0
Handler Name:	UNDERGROUND AUTOMOTIVE
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 **UPLAND ENGINETEK1** **RCRA NonGen / NLR** **1024870777**
East **1710 W FOOTHILL BLVD STE A3** **CAL000439419**
< 1/8 **UPLAND, CA 91786**
0.034 mi.
179 ft. **Site 7 of 17 in cluster D**

Relative: RCRA NonGen / NLR:
Lower

Date Form Received by Agency:		2018-09-26 00:00:00.0
Actual: Handler Name:	UPLAND ENGINETEK1	
1343 ft. Handler Address:		1710 W FOOTHILL BLVD STE A3
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAL000439419
Contact Name:		AMWAR KHADER
Contact Address:		1710 W FOOTHILL BLVD STE A3
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-771-8052
Contact Fax:		Not reported
Contact Email:		UPLANDENGINETECH#GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported

UPLAND ENGINETEK1 (Continued) **1024870777**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1710 W FOOTHILL BLVD STE A3
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	LILY NGUYEN
Owner Type:	Other
Operator Name:	AMWAR KHADER
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

UPLAND ENGINETEK1 (Continued) **1024870777**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-10-01 18:39:26.0
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:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	AMWAR KHADER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1710 W FOOTHILL BLVD STE A3
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-771-8052
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LILY NGUYEN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4979 N SIERRA WAY
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92404
Owner/Operator Telephone:	909-800-8300
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2018-09-26 00:00:00.0
Handler Name: UPLAND ENGINETEK1	
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:

UPLAND ENGINETEK1 (Continued) **1024870777**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D22 **VALLEY RADIATOR** **RCRA-SQG** **1000283342**
East **1710 W FOOTHILL C-1** **FINDS** **CAD982481301**
< 1/8 **UPLAND, CA 91786** **ECHO**
0.034 mi.
179 ft. **Site 8 of 17 in cluster D**

Relative: **Lower**
Actual: **1343 ft.**

RCRA-SQG:

Date Form Received by Agency:		1996-09-01 00:00:00.0
Handler Name:	VALLEY RADIATOR	
Handler Address:		1710 W FOOTHILL C-1
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAD982481301
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:		Not reported
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:		CA
State District:		4
Mailing Address:		W FOOTHILL C-1
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		LINDA BRIGHT
Owner Type:		Private
Operator Name:		NOT REQUIRED
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:		---

VALLEY RADIATOR (Continued) **1000283342**

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 17:30:25.0
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	Not reported

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LINDA BRIGHT
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:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported

VALLEY RADIATOR (Continued) **1000283342**

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:	1996-09-01 00:00:00.0
Handler Name: VALLEY RADIATOR	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
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: 110009546321

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:	1000283342
Registry ID:	110009546321
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009546321
Name:	VALLEY RADIATOR
Address:	1710 W FOOTHILL C-1
City,State,Zip:	UPLAND, CA 91786

D23 **TOYOTA SPECIALITIES** **RCRA-SQG** **1000342889**
East **1710 W FOOTHILL BLVD A-3** **FINDS** **CAD982321242**
< 1/8 **UPLAND, CA 91786** **ECHO**
0.034 mi.
179 ft. **Site 9 of 17 in cluster D**

Relative: **Lower**

Actual: **1343 ft.**

RCRA-SQG:

Date Form Received by Agency:		1988-03-10 00:00:00.0
Handler Name:	TOYOTA SPECIALITIES	
Handler Address:		1710 W FOOTHILL BLVD A-3
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAD982321242
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		1710 W FOOTHILL BLVD A-3
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		714-982-1630
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
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:		CA
State District:		4
Mailing Address:		W FOOTHILL BLVD A-3
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		KEN WILLIAMS
Owner Type:		Private
Operator Name:		NOT REQUIRED
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:		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

TOYOTA SPECIALITIES (Continued) **1000342889**

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 17:30:09.0
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:	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

Owner/Operator Indicator:	Owner
Owner/Operator Name:	KEN WILLIAMS
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

TOYOTA SPECIALITIES (Continued) **1000342889**

Historic Generators:
Receive Date: 1988-03-10 00:00:00.0
Handler Name: TOYOTA SPECIALITIES
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
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: 110009543618

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: 1000342889
Registry ID: 110009543618
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110009543618
Name: TOYOTA SPECIALITIES
Address: 1710 W FOOTHILL BLVD A-3
City,State,Zip: UPLAND, CA 91786

D24 **REIDS GM AUTO SERV** **RCRA-SQG** **1000192413**
East **1710 W FOOTHILL BLVD D14** **FINDS** **CAD982407405**
< 1/8 **UPLAND, CA 91786** **ECHO**
0.034 mi.
179 ft. **Site 10 of 17 in cluster D**

Relative: **Lower**

Actual: **1343 ft.**

RCRA-SQG:

Date Form Received by Agency:		1990-08-29 00:00:00.0
Handler Name:	REIDS GM AUTO SERV	
Handler Address:		1710 W FOOTHILL BLVD D14
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAD982407405
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		1710 W FOOTHILL BLVD D14
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		714-949-1386
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
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:		CA
State District:		4
Mailing Address:		W FOOTHILL BLVD D14
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		AL REID
Owner Type:		Private
Operator Name:		NOT REQUIRED
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:		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

REIDS GM AUTO SERV (Continued) **1000192413**

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 17:30:19.0
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:	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

Owner/Operator Indicator:	Owner
Owner/Operator Name:	AL REID
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

REIDS GM AUTO SERV (Continued) **1000192413**

Historic Generators:
- Receive Date: 1990-08-29 00:00:00.0
- Handler Name: REIDS GM AUTO SERV
- Federal Waste Generator Description: Small Quantity Generator
- State District Owner: CA
- 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: 110009544653

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: 1000192413
- Registry ID: 110009544653
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110009544653
- Name: REIDS GM AUTO SERV
- Address: 1710 W FOOTHILL BLVD D14
- City,State,Zip: UPLAND, CA 91786

D25 **LEDEZMA AUTO BODY PAINT** **RCRA-SQG** **1000226515**
East **1710 W FOOTHILL BLVD B1** **FINDS** **CAD982407751**
< 1/8 **UPLAND, CA 91786** **ECHO**
0.034 mi.
179 ft. **Site 11 of 17 in cluster D**

Relative: **Lower**

Actual: **1343 ft.**

RCRA-SQG:

Date Form Received by Agency:	1990-08-29 00:00:00.0
Handler Name:	LEDEZMA AUTO BODY PAINT
Handler Address:	1710 W FOOTHILL BLVD B1
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAD982407751
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	1710 W FOOTHILL BLVD B1
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	714-982-2722
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
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:	CA
State District:	4
Mailing Address:	W FOOTHILL BLVD B1
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	LEDEZMA CARLOS
Owner Type:	Private
Operator Name:	NOT REQUIRED
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:	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

LEDEZMA AUTO BODY PAINT (Continued) **1000226515**

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 17:30:19.0
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:	LEDEZMA CARLOS
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:	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

LEDEZMA AUTO BODY PAINT (Continued) **1000226515**

Historic Generators:

Receive Date:	1990-08-29 00:00:00.0
Handler Name:	LEDEZMA AUTO BODY PAINT
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
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:	110009544699

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:	1000226515
Registry ID:	110009544699
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009544699
Name:	LEDEZMA AUTO BODY PAINT
Address:	1710 W FOOTHILL BLVD B1
City,State,Zip:	UPLAND, CA 91786

D26 **TOYLEXURA** **San Bern. Co. Permit** **S107448077**
East **1710 W FOOTHILL BLVD A-3** **N/A**
< 1/8 **UPLAND, CA 91786**
0.034 mi.
179 ft. **Site 12 of 17 in cluster D**

Relative: **Lower**

Actual: **1343 ft.**

San Bern. Co. Permit:

Name:	TOYLEXURA
Address:	1710 W FOOTHILL BLVD A-3
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006759
Owner:	LAING, CONRAD
Permit Number:	PT0004690
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	03/31/2004

Name:	TOYLEXURA
Address:	1710 W FOOTHILL BLVD A-3
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006759
Owner:	LAING, CONRAD
Permit Number:	PT0004691
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	03/31/2004

D27 **UNDERGROUND AUTOMOTIVE** **San Bern. Co. Permit** **S117896842**
East **1710 W FOOTHILL BLVD D-11** **N/A**
< 1/8 **UPLAND, CA 91786**
0.034 mi.
179 ft. **Site 13 of 17 in cluster D**

Relative: **Lower**

Actual: **1343 ft.**

San Bern. Co. Permit:

Name:	UNDERGROUND AUTOMOTIVE
Address:	1710 W FOOTHILL BLVD D-11
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0015881
Owner:	JEFF LEWIS
Permit Number:	PT0034569
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	03/31/2021

Name:	UNDERGROUND AUTOMOTIVE
Address:	1710 W FOOTHILL BLVD D-11
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0015881
Owner:	JEFF LEWIS
Permit Number:	PT0037828
Permit Category:	HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status:	FEE EXEMPT
Expiration Date:	03/31/2018

D28 **REPAIR SOLUTIONS** **RCRA-SQG** **1000146911**
East **1710 W FOOTHILL BLVD D-6** **FINDS** **CAD982321226**
< 1/8 **UPLAND, CA 91786** **ECHO**
0.034 mi.
179 ft. **Site 14 of 17 in cluster D**

Relative: **Lower**
Actual: **1343 ft.**

RCRA-SQG:

Date Form Received by Agency:		1988-03-10 00:00:00.0
Handler Name:	REPAIR SOLUTIONS	
Handler Address:		1710 W FOOTHILL BLVD D-6
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAD982321226
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		1710 W FOOTHILL BLVD D-6
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		714-949-0781
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
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:		CA
State District:		4
Mailing Address:		W FOOTHILL BLVD D-6
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		BRIAN WISHARD
Owner Type:		Private
Operator Name:		NOT REQUIRED
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:		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

REPAIR SOLUTIONS (Continued) **1000146911**

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 17:30:09.0
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:	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

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BRIAN WISHARD
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

REPAIR SOLUTIONS (Continued) **1000146911**

Historic Generators:
- Receive Date: 1988-03-10 00:00:00.0
- Handler Name: REPAIR SOLUTIONS
- Federal Waste Generator Description: Small Quantity Generator
- State District Owner: CA
- 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: 110002793674

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: 1000146911
- Registry ID: 110002793674
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002793674
- Name: REPAIR SOLUTIONS
- Address: 1710 W FOOTHILL BLVD D-6
- City,State,Zip: UPLAND, CA 91786

B29
West
< 1/8
0.047 mi.
246 ft.

HONDA NISSAN SPECIALIST
1710 W FOOTHILL BLVD D7 & D8
UPLAND, CA 91784

Site 4 of 5 in cluster B

RCRA-SQG
FINDS
ECHO

1000184455
CAD982321291

Relative:
Higher

Actual:
1347 ft.

RCRA-SQG:

Date Form Received by Agency:	1990-08-27 00:00:00.0
Handler Name:	HONDA NISSAN SPECIALIST
Handler Address:	1710 W FOOTHILL BLVD D7 & D8
Handler City,State,Zip:	UPLAND, CA 91784
EPA ID:	CAD982321291
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	1710 W FOOTHILL BLVD D7 & D8
Contact City,State,Zip:	UPLAND, CA 91754
Contact Telephone:	714-981-1121
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
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:	CA
State District:	4
Mailing Address:	1710 W FOOTHILL BLVD D8
Mailing City,State,Zip:	UPLAND, CA 91754
Owner Name:	FRED MORGART
Owner Type:	Private
Operator Name:	NOT REQUIRED
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:	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

HONDA NISSAN SPECIALIST (Continued) **1000184455**

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:	2002-06-27 03:33:03.0
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:	FRED MORGART
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:	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

HONDA NISSAN SPECIALIST (Continued) **1000184455**

Historic Generators:

Receive Date:	1990-08-27 00:00:00.0
Handler Name:	HONDA NISSAN SPECIALIST
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
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:	110008276034

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:	1000184455
Registry ID:	110008276034
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008276034
Name:	HONDA NISSAN SPECIALIST
Address:	1710 W FOOTHILL BLVD D7 & D8
City,State,Zip:	UPLAND, CA 91784

B30 **WESTPORT UPLAND SELF STORAGE. LLC** **RCRA NonGen / NLR** **1025837404**
NNW **1801 FOOTHILL BLVD** **CAC003016994**
< 1/8 **UPLAND, CA 91786**
0.048 mi.
255 ft. **Site 5 of 5 in cluster B**

Relative: **Higher**

Actual: **1362 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-05-29 00:00:00.0
Handler Name:	WESTPORT UPLAND SELF STORAGE. LLC
Handler Address:	1801 FOOTHILL BLVD
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAC003016994
Contact Name:	WESTPORT UPLAND SELF STORAGE. LLC
Contact Address:	2201 DUPONT DRIVE SUITE 700
Contact City,State,Zip:	IRVINE, CA 92612
Contact Telephone:	949-748-5942
Contact Fax:	Not reported
Contact Email:	JONATHANJACKSONCOMPANY@GMAIL.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:	2201 DUPONT DRIVE SUITE 700
Mailing City,State,Zip:	IRVINE, CA 92612
Owner Name:	WESTPORT UPLAND SELF STORAGE. LLC
Owner Type:	Other
Operator Name:	WESTPORT UPLAND SELF STORAGE. LLC
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

WESTPORT UPLAND SELF STORAGE. LLC (Continued) **1025837404**

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:	2019-06-27 14:19:08.0
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:	WESTPORT UPLAND SELF STORAGE. LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2201 DUPONT DRIVE SUITE 700
Owner/Operator City,State,Zip:	IRVINE, CA 92612
Owner/Operator Telephone:	949-748-5942
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	WESTPORT UPLAND SELF STORAGE. LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2201 DUPONT DRIVE SUITE 700
Owner/Operator City,State,Zip:	IRVINE, CA 92612
Owner/Operator Telephone:	949-748-5942
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

WESTPORT UPLAND SELF STORAGE. LLC (Continued) **1025837404**

Historic Generators:
Receive Date: 2019-05-29 00:00:00.0
Handler Name: WESTPORT UPLAND SELF STORAGE. LLC
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

C31 **A FOOTHILL AUTO SERVICE** **CERS HAZ WASTE** **S113026992**
North **1775 W FOOTHILL BLVD** **HAZNET** **N/A**
< 1/8 **UPLAND, CA 91786** **CERS**
0.050 mi. **HWTS**
266 ft. **Site 2 of 8 in cluster C**

Relative:
Higher

Actual:
1362 ft.

CERS HAZ WASTE:
Name: MEJIA AUTO BODY SHOP
Address: 1775 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 47898
CERS ID: 10588189
CERS Description: Hazardous Waste Generator

HAZNET:
Name: A FOOTHILL AUTO SERVICE
Address: 1775 W FOOTHILL BLVD
Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000
Contact: INACTIVE MOVED 8/95
Telephone: 9099818210
Mailing Name: Not reported
Mailing Address: 1775 W FOOTHILL BLVD

Year: 1995
Gepaid: CAL000015567
TSD EPA ID: CAT080013352
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: R01 - Recycler
Tons: 0.462

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

Year:	1994
Gepaid:	CAL000015567
TSD EPA ID:	CAT080013352
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	R01 - Recycler
Tons:	0.924
Year:	1993
Gepaid:	CAL000015567
TSD EPA ID:	CAT080025711
CA Waste Code:	-
Disposal Method:	R01 - Recycler
Tons:	0
Year:	1993
Gepaid:	CAL000015567
TSD EPA ID:	CAT080025711
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	-
Tons:	0.42
Year:	1993
Gepaid:	CAL000015567
TSD EPA ID:	CAT080025711
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	R01 - Recycler
Tons:	0.84
Year:	1990
Gepaid:	CAL000015567
TSD EPA ID:	CAT080013352
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	R01 - Recycler
Tons:	0.9174
Year:	1989
Gepaid:	CAL000015567
TSD EPA ID:	CAT080013352
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	R01 - Recycler
Tons:	0.9591
Year:	1989
Gepaid:	CAL000015567
TSD EPA ID:	CAD044429835
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	R01 - Recycler
Tons:	0.1876
Year:	1989
Gepaid:	CAL000015567
TSD EPA ID:	AZD049318009
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	-
Tons:	0.4378

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

Year:	1989
Gepaid:	CAL000015567
TSD EPA ID:	CAT080013352
CA Waste Code:	133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method:	R01 - Recycler
Tons:	0.417

Click this hyperlink while viewing on your computer to access
1 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

Year:	1994
Gen EPA ID:	CAL000015567
Shipment Date:	19941128
Creation Date:	3/28/1996 0:00:00
Receipt Date:	19941128
Manifest ID:	93701876
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.462
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:	19940915
Creation Date:	3/26/1996 0:00:00
Receipt Date:	19940915
Manifest ID:	93702424
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.462
Waste Quantity:	110
Quantity Unit:	G

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

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:	1995
Gen EPA ID:	CAL000015567
Shipment Date:	19950504
Creation Date:	10/24/1995 0:00:00
Receipt Date:	19950504
Manifest ID:	95250555
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.462
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

Additional Info:

Year:	1993
Gen EPA ID:	CAL000015567
Shipment Date:	19930817
Creation Date:	9/12/1995 0:00:00
Receipt Date:	19930817
Manifest ID:	92762961
Trans EPA ID:	CAT080011059
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:	CAT080025711
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.42
Waste Quantity:	100
Quantity Unit:	G

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

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:	19930428
Creation Date:	9/14/1995 0:00:00
Receipt Date:	Not reported
Manifest ID:	92764008
Trans EPA ID:	CAT080011059
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:	CAT080025711
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.42
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:	19930205
Creation Date:	9/15/1995 0:00:00
Receipt Date:	19930208
Manifest ID:	90833974
Trans EPA ID:	CAT080011059
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:	CAT080025711
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.42
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:	19930205
Creation Date:	9/15/1995 0:00:00
Receipt Date:	19930208

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

Manifest ID:	90833974
Trans EPA ID:	CAT080011059
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:	CAT080025711
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0
Waste Quantity:	0
Quantity Unit:	Not reported
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

CERS:

Name:	MEJIA AUTO BODY SHOP
Address:	1775 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Site ID:	47898
CERS ID:	10588189
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	47898
Site Name:	Mejia Auto body shop
Violation Date:	06-12-2014
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 10/09/2014. 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:	47898
Site Name:	Mejia Auto body shop
Violation Date:	06-12-2014
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 10/09/2014. Failure to establish a Contingency Plan (CCR 66265.51(a))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	47898
Site Name:	Mejia Auto body shop
Violation Date:	06-12-2014

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

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 10/09/2014. Failure to store hazardous waste in sound containers (CCR 66265.171)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	47898
Site Name:	Mejia Auto body shop
Violation Date:	06-12-2014
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 10/09/2014.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	47898
Site Name:	Mejia Auto body shop
Violation Date:	06-12-2014
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 10/09/2014. Failure to label hazardous waste containers (CCR 66262.34(f)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	47898
Site Name:	Mejia Auto body shop
Violation Date:	06-12-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 10/09/2014. 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:	47898
Site Name:	Mejia Auto body shop
Violation Date:	06-12-2014
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 10/09/2014. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

Site ID: 47898
Site Name: Mejia Auto body shop
Violation Date: 06-12-2014
Citation: HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description: Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 10/09/2014.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 47898
Site Name: Mejia Auto body shop
Violation Date: 06-12-2014
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 10/09/2014. Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-12-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: MEJIA ISPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-26-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FILE PREPARATION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 47898
Site Name: Mejia Auto body shop
Site Address: 1775 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 06-12-2014
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: HW

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

Enf Action Source: CERS

Affiliation:

Affiliation Type Desc: Document Preparer
Entity Name: Humberto Mejia
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: Humbeto Mejia
Entity Title: Not reported
Affiliation Address: 1775 W Foothill Blvd
Affiliation City: Upland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Mejia Auto Body Shop 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: Frank Coup
Entity Title: Not reported
Affiliation Address: 1775 W Foothill Blvd
Affiliation City: Upland
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91786
Affiliation Phone: (909) 608-7699

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: 1775 W Foothill Blvd

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Humberto Mejia
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:	Humberto Mejia
Entity Title:	Not reported
Affiliation Address:	1775 W Foothill Blvd
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(714) 414-5310
Affiliation Type Desc:	Operator
Entity Name:	Humberto Mejia
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:	(714) 414-5310

HWTS:

Name:	A FOOTHILL AUTO SERVICE
Address:	1775 W FOOTHILL BLVD
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAL000015567
Inactive Date:	01/01/1900
Create Date:	11/14/1989
Last Act Date:	05/28/1996
Mailing Name:	Not reported
Mailing Address:	1775 W FOOTHILL BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917860000
Owner Name:	DAVE VAN DUSEN
Owner Address:	1775 W FOOTHILL BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	UPLAND, CA --
Contact Name:	INACTIVE MOVED 8/95
Contact Address:	1775 W FOOTHILL BLVD
Contact Address 2:	Not reported

A FOOTHILL AUTO SERVICE (Continued) **S113026992**

City,State,Zip: UPLAND, CA --

C32 **ROUTE 66 AUTO REPAIR** **CERS HAZ WASTE** **S113095164**
North **1775 W FOOTHILL BLVD STE A** **HAZNET** **N/A**
< 1/8 **UPLAND, CA 91786** **San Bern. Co. Permit**
0.050 mi. **CERS**
266 ft. **Site 3 of 8 in cluster C** **HWTS**

Relative:
Higher

Actual:
1362 ft.

CERS HAZ WASTE:
Name: ROUTE 66 AUTO REPAIR
Address: 1775 W FOOTHILL BLVD STE A
City,State,Zip: UPLAND, CA 91786
Site ID: 373428
CERS ID: 10683106
CERS Description: Hazardous Waste Generator

HAZNET:
Name: A+ AUTO REPAIR
Address: 1775 W FOOTHILL BLVD
Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000
Contact: NASSER ABUJUDEH
Telephone: 9099206476
Mailing Name: Not reported
Mailing Address: 1775 W FOOTHILL BLVD

Year: 2000
Gepaid: CAL000179724
TSD EPA ID: CAT000613927
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H01 - Transfer Station
Tons: 0.1302

Additional Info:
Year: 2000
Gen EPA ID: CAL000179724

Shipment Date: 20001110
Creation Date: 1/9/2001 0:00:00
Receipt Date: 20001110
Manifest ID: 20298190
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613927
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: D039
Meth Code: H01 - Transfer Station
Quantity Tons: 0.0672
Waste Quantity: 16
Quantity Unit: G

ROUTE 66 AUTO REPAIR (Continued) **S113095164**

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:	20000523
Creation Date:	7/12/2000 0:00:00
Receipt Date:	20000523
Manifest ID:	20003793
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.063
Waste Quantity:	15
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

San Bern. Co. Permit:

Name:	ROUTE 66 AUTO REPAIR
Address:	1775 W FOOTHILL BLVD STE A
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0011410
Owner:	frank cope
Permit Number:	PT0019749
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	02/28/2021
Name:	ROUTE 66 AUTO REPAIR
Address:	1775 W FOOTHILL BLVD STE A
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0011410
Owner:	frank cope
Permit Number:	PT0019750
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	02/28/2021

CERS:

Name:	ROUTE 66 AUTO REPAIR
Address:	1775 W FOOTHILL BLVD STE A

ROUTE 66 AUTO REPAIR (Continued) **S113095164**

City,State,Zip: UPLAND, CA 91786
Site ID: 373428
CERS ID: 10683106
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 373428
Site Name: Route 66 Auto Repair
Violation Date: 01-23-2019
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 05/13/2019. OBSERVATION: At time of inspection, the last complete Business Plan was submitted to the California Environmental Reporting System (CERS) on 6/16/16. CORRECTIVE ACTION: Review and certify the business plan annually.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 373428
Site Name: Route 66 Auto Repair
Violation Date: 01-23-2019
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 02/22/2019. OBSERVATION: At time of inspection, the EPA ID number for this facility was inactive. CORRECTIVE ACTION: Obtain a permanent EPA ID number by submitting form 1358 to DTSC. Submit a signed statement indicating that a valid EPA ID number has been obtained.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 373428
Site Name: Route 66 Auto Repair
Violation Date: 03-22-2016
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 06/16/2016. Facility did not submit a Business Plan to CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-23-2019
Violations Found: Yes

ROUTE 66 AUTO REPAIR (Continued) **S113095164**

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: 01-23-2019
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: 03-22-2016
Violations Found: No
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: 03-22-2016
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
Eval Source: CERS

Enforcement Action:
Site ID: 373428
Site Name: Route 66 Auto Repair
Site Address: 1775 W FOOTHILL BLVD STE A
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 03-22-2016
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

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Frank Cope
Entity Title: Not reported
Affiliation Address: 1775 W Foothill Blvd Ste A
Affiliation City: Upland
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91786

ROUTE 66 AUTO REPAIR (Continued) **S113095164**

Affiliation Phone:	(818) 203-8453
Affiliation Type Desc:	Operator
Entity Name:	Route 66 Auto Repair
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) 608-7699
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1775 W Foothill Blvd Ste A
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Route 66 Auto Repair
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San 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:	Environmental Contact
Entity Name:	Frank Cope
Entity Title:	Not reported
Affiliation Address:	1775 w foothill
Affiliation City:	upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	frank cope
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

ROUTE 66 AUTO REPAIR (Continued) **S113095164**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: frank cope
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

HWTS:
Name: A+ AUTO REPAIR
Address: 1775 W FOOTHILL BLVD
Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000
EPA ID: CAL000179724
Inactive Date: 06/30/2001
Create Date: 08/28/1997
Last Act Date: 04/19/2002
Mailing Name: Not reported
Mailing Address: 1775 W FOOTHILL BLVD
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 917860000
Owner Name: NASSER ABUJUDEH
Owner Address: 1775 W FOOTHILL BLVD
Owner Address 2: Not reported
Owner City,State,Zip: UPLAND, CA --
Contact Name: NASSER ABUJUDEH
Contact Address: 1775 W FOOTHILL BLVD
Contact Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000

C33 **ROUTE 66 AUTO REPAIR** **RCRA NonGen / NLR** **1025867708**
North **1775 W FOOTHILL BLVD** **CAL000329460**
< 1/8 **UPLAND, CA 91786**
0.050 mi.
266 ft. **Site 4 of 8 in cluster C**

Relative:
Higher

Actual:
1362 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2008-02-06 00:00:00.0
Handler Name: ROUTE 66 AUTO REPAIR
Handler Address: 1775 W FOOTHILL BLVD
Handler City,State,Zip: UPLAND, CA 91786-3590
EPA ID: CAL000329460
Contact Name: FRANK COPE
Contact Address: 1775 W FOOTHILL BLVD
Contact City,State,Zip: UPLAND, CA 91786
Contact Telephone: 909-608-7699
Contact Fax: 909-608-2033
Contact Email: ROUTE66REPAIR@AOL.COM
Contact Title: Not reported

ROUTE 66 AUTO REPAIR (Continued) **1025867708**

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:	1775 W FOOTHILL BLVD
Mailing City,State,Zip:	UPLAND, CA 91786-3590
Owner Name:	COPE CONSTRUCTION INC.
Owner Type:	Other
Operator Name:	FRANK COPE
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:	Yes
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

ROUTE 66 AUTO REPAIR (Continued) **1025867708**

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:	2019-06-28 17:06:36.0
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:	COPE CONSTRUCTION INC.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1775 W FOOTHILL
Owner/Operator City,State,Zip:	UPLAND, CA 91750-0000
Owner/Operator Telephone:	909-608-7699
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	FRANK COPE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1775 W FOOTHILL BLVD
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-608-7699
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2008-02-06 00:00:00.0
Handler Name: ROUTE 66 AUTO REPAIR	
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

ROUTE 66 AUTO REPAIR (Continued) **1025867708**

NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C34 **FLIEDER MAUS** **EDR Hist Auto** **1020425524**
North **1775 W FOOTHILL BLVD** **N/A**
< 1/8 **UPLAND, CA 91786**
0.050 mi.
266 ft. **Site 5 of 8 in cluster C**

Relative: EDR Hist Auto
Higher

Actual: **1362 ft.**

Year:	Name:	Type:
1977	YOUNG WILLIAM R	Automotive Repair Shops, NEC
1978	YOUNG WILLIAM R	Automotive Repair Shops, NEC
1978	FLIEDER MAUS	General Automotive Repair Shops
1979	YOUNG WILLIAM R	Automotive Repair Shops, NEC
1979	FLIEDER MAUS	General Automotive Repair Shops
1980	YOUNG WILLIAM R	Automotive Repair Shops, NEC
1980	FLIEDER MAUS	General Automotive Repair Shops
1982	YOUNG WILLIAM R	Automotive Repair Shops, NEC
1982	FLIEDER MAUS	General Automotive Repair Shops
1983	YOUNG WILLIAM R	Automotive Repair Shops, NEC
1983	FLIEDER MAUS	General Automotive Repair Shops
1985	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1985	YOUNG WILLIAM R	Automotive Repair Shops, NEC
1985	FLIEDER MAUS	General Automotive Repair Shops
1986	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1986	FLIEDER MAUS	General Automotive Repair Shops
1987	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1987	FLIEDER MAUS	General Automotive Repair Shops
1988	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1988	FLIEDER MAUS	General Automotive Repair Shops
1989	FLIEDER MAUS	General Automotive Repair Shops
1989	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1990	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1990	FLIEDER MAUS	General Automotive Repair Shops
1991	FLIEDER MAUS	General Automotive Repair Shops
1991	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1992	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1992	FLIEDER MAUS	General Automotive Repair Shops
1993	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1993	FLIEDER MAUS	General Automotive Repair Shops
1994	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1995	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1995	A1 AUTO REPAIR CENTER INC	General Automotive Repair Shops
1996	A FOOTHILL AUTO SERVICE	General Automotive Repair Shops
1996	A1 AUTO REPAIR CENTER INC	General Automotive Repair Shops
1997	A1 AUTO REPAIR CENTER INC	General Automotive Repair Shops
2005	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops
2006	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops
2007	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops

FLIEDER MAUS (Continued) **1020425524**

2008	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops
2009	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops
2010	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops
2011	INGRAM HOWARD	Automotive Transmission Repair Shops
2011	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops
2012	INGRAM HOWARD	Automotive Transmission Repair Shops
2012	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops
2013	INGRAM HOWARD	Automotive Transmission Repair Shops
2013	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops
2014	ROUTE 66 AUTO REPAIR CENTER	General Automotive Repair Shops
2014	INGRAM HOWARD	Automotive Transmission Repair Shops

C35 **EMPIRE COLLISION CENTER** **San Bern. Co. Permit** **S106112384**
North **1775 1/2 W FOOTHILL BLVD** **N/A**
< 1/8 **UPLAND, CA 91786**
0.050 mi.
266 ft. **Site 6 of 8 in cluster C**

Relative: **Higher**

Actual: **1362 ft.**

San Bern. Co. Permit:

Name: EMPIRE COLLISION CENTER
Address: 1775 1/2 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0008597
Owner: Marco Cardenas
Permit Number: PT0024002
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 02/28/2013

Name: EMPIRE COLLISION CENTER
Address: 1775 1/2 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0008597
Owner: Marco Cardenas
Permit Number: PT0014907
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 02/28/2013

Name: ON TIME COLLISION CENTER
Address: 1775 1/2 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005073
Owner: MARTHA JOHNSON
Permit Number: PT0001019
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 09/30/2001

Name: ON TIME COLLISION CENTER
Address: 1775 1/2 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005073
Owner: MARTHA JOHNSON

EMPIRE COLLISION CENTER (Continued) **S106112384**

Permit Number: PT0001020
Permit Category: HAZARDOUS WASTE GENERATOR - 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 09/30/2001

C36 **MEJIA AUTO BODY SHOP, INC.** **San Bern. Co. Permit** **S100853819**
North **1775 W FOOTHILL BLVD STE C** **N/A**
< 1/8 **UPLAND, CA 91786**
0.050 mi.
266 ft. **Site 7 of 8 in cluster C**

Relative:
Higher

Actual:
1362 ft.

San Bern. Co. Permit:
Name: MEJIA AUTO BODY SHOP, INC.
Address: 1775 W FOOTHILL BLVD STE C
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0015132
Owner: Humberto Mejia
Permit Number: PT0026381
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 09/30/2020

Name: MEJIA AUTO BODY SHOP, INC.
Address: 1775 W FOOTHILL BLVD STE C
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0015132
Owner: Humberto Mejia
Permit Number: PT0038317
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: FEE EXEMPT
Expiration Date: 09/30/2018

Name: A & AUTO REPAIR CENTER
Address: 1775 W FOOTHILL
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0008598
Owner: ABUJUDEH, NASSER N.
Permit Number: PT0014908
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 07/31/2005

Name: A & AUTO REPAIR CENTER
Address: 1775 W FOOTHILL
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0008598
Owner: ABUJUDEH, NASSER N.
Permit Number: PT0014909
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 07/31/2005

C37 **MEJIA AUTO BODY SHOP INC** **RCRA NonGen / NLR** **1026489982**
North **1775 W FOOTHILL BLVD** **CAL000399976**
< 1/8 **UPLAND, CA 91786**
0.050 mi.
266 ft. **Site 8 of 8 in cluster C**

Relative:
Higher

Actual:
1362 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2014-08-22 00:00:00.0
Handler Name:	MEJIA AUTO BODY SHOP INC
Handler Address:	1775 W FOOTHILL BLVD
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000399976
Contact Name:	HUMBERTO MEJIA OWNER
Contact Address:	1775 W FOOTHILL BLVD
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	714-414-5310
Contact Fax:	Not reported
Contact Email:	HUMBERTOMEJIA985@YAHOO.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:	1775 W FOOTHILL BLVD
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	MEJIA AUTO BODY SHOP INC
Owner Type:	Other
Operator Name:	HUMBERTO MEJIA 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:	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

MEJIA AUTO BODY SHOP INC (Continued) **1026489982**

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:	2020-11-17 18:47:34.0
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:	MEJIA AUTO BODY SHOP INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2946 S CAMPUS AVE APT 12
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	714-414-5310
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	HUMBERTO MEJIA OWNER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1775 W FOOTHILL BLVD
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	714-414-5310
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

MEJIA AUTO BODY SHOP INC (Continued) **1026489982**

Historic Generators:
Receive Date: 2014-08-22 00:00:00.0
Handler Name: MEJIA AUTO BODY SHOP 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: 811121
NAICS Description: AUTOMOTIVE BODY, PAINT, AND INTERIOR REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D38 **VALLEY TRANSMISSIONS** **EDR Hist Auto** **1020974950**
East **1700 W FOOTHILL BLVD** **N/A**
< 1/8 **UPLAND, CA 91786**
0.053 mi.
279 ft. **Site 15 of 17 in cluster D**

Relative: EDR Hist Auto
Lower

Actual:
1343 ft.

Year:	Name:	Type:
1979	VALLEY TRANSMISSION	Automotive Repair Shops, NEC
1980	VALLEY TRANSMISSION	Automotive Repair Shops, NEC
1982	VALLEY TRANSMISSION	Automotive Repair Shops, NEC
1983	VALLEY TRANSMISSION	Automotive Repair Shops, NEC
1985	VALLEY TRANSMISSION	Automotive Repair Shops, NEC
1986	VALLEY TRANSMISSION	Automotive Repair Shops, NEC
1987	VALLEY TRANSMISSION	Automotive Repair Shops, NEC
1987	ADVANCED ALTERNATORS	Automotive Repair Shops, NEC
1988	ADVANCED ALTERNATORS	Automotive Repair Shops, NEC
1988	VALLEY TRANSMISSION	Automotive Repair Shops, NEC
1989	ADVANCED ALTERNATORS	Automotive Repair Shops, NEC
1990	ADVANCED ALTERNATORS	Automotive Repair Shops, NEC
1991	VALLEY TRANSMISSION	Automotive Transmission Repair Shops
1991	ADVANCED ALTERNATORS	Automotive Repair Shops, NEC
1992	ADVANCED ALTERNATORS	Automotive Repair Shops, NEC
1997	VALLEY TRANSMISSIONS	Automotive Transmission Repair Shops
1998	VALLEY TRANSMISSIONS	Automotive Transmission Repair Shops
1999	VALLEY TRANSMISSIONS	Automotive Transmission Repair Shops
2000	VALLEY TRANSMISSIONS	Automotive Transmission Repair Shops
2001	VALLEY TRANSMISSIONS	Automotive Transmission Repair Shops
2002	VALLEY TRANSMISSIONS	Automotive Transmission Repair Shops
2003	VALLEY TRANSMISSIONS	Automotive Transmission Repair Shops

VALLEY TRANSMISSIONS (Continued) **1020974950**

2004	VALLEY TRANSMISSIONS CORP	Automotive Transmission Repair Shops
2005	VALLEY TRANSMISSIONS CORP	Automotive Transmission Repair Shops
2006	VALLEY TRANSMISSIONS CORP	Automotive Transmission Repair Shops
2006	SIGNATURE AUTO COSMETICS	General Automotive Repair Shops
2007	SIGNATURE AUTO COSMETICS	General Automotive Repair Shops
2007	VALLEY TRANSMISSIONS CORP	Automotive Transmission Repair Shops
2008	VALLEY TRANSMISSIONS CORP	Automotive Transmission Repair Shops
2008	SIGNATURE AUTO COSMETICS	General Automotive Repair Shops
2009	SIGNATURE AUTO COSMETICS	General Automotive Repair Shops
2010	SO CAL TINT	General Automotive Repair Shops

D39 **VALLEY TRANSMISSIONS** **RCRA-SQG** **1000455544**
East **1700 W FOOTHILL** **FINDS** **CAD982495822**
< 1/8 **UPLAND, CA 91786** **ECHO**
0.053 mi. **HAZNET**
279 ft. **Site 16 of 17 in cluster D** **San Bern. Co. Permit**
CERS
Relative: **HWTS**
Lower

Actual: **1343 ft.**

RCRA-SQG:

Date Form Received by Agency:		1990-08-14 00:00:00.0
Handler Name:	VALLEY TRANSMISSIONS	
Handler Address:		1700 W FOOTHILL
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAD982495822
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		1700 W FOOTHILL
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		714-981-5824
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
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:		CA
State District:		4
Mailing Address:		W FOOTHILL
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		DIAZ DE TUESTA
Owner Type:		Private
Operator Name:		NOT REQUIRED
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

VALLEY TRANSMISSIONS (Continued) **1000455544**

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 17:30:27.0
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	Not reported

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DIAZ DE TUESTA
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

VALLEY TRANSMISSIONS (Continued) **1000455544**

Owner/Operator Email: Not reported

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: 1990-08-14 00:00:00.0
Handler Name: VALLEY TRANSMISSIONS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
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: 110002831348

Click Here:

Environmental Interest/Information System:
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.
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.

VALLEY TRANSMISSIONS (Continued) **1000455544**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000455544
Registry ID:	110002831348
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002831348
Name:	VALLEY TRANSMISSIONS
Address:	1700 W FOOTHILL
City,State,Zip:	UPLAND, CA 91786

HAZNET:

Name:	VALLEY TRANSMISSIONS
Address:	1700 W FOOTHILL
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
Contact:	GALO DIAZ DE TUESTA
Telephone:	9099815824
Mailing Name:	Not reported
Mailing Address:	1700 W FOOTHILL BLVD STE D
Year:	2004
Gepaid:	CAD982495822
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	-
Tons:	2.3769
Year:	2004
Gepaid:	CAD982495822
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	0.43785
Year:	2003
Gepaid:	CAD982495822
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	3.4194
Year:	2002
Gepaid:	CAD982495822
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	3.0441
Year:	2001
Gepaid:	CAD982495822
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	3.3359

VALLEY TRANSMISSIONS (Continued) **1000455544**

Year: 2000
Gepaid: CAD982495822
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 3.3358

Year: 1999
Gepaid: CAD982495822
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 2.773

Year: 1998
Gepaid: CAD982495822
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 3.5444

Year: 1997
Gepaid: CAD982495822
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 1.7097

Year: 1995
Gepaid: CAD982495822
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 0.5212

Click this hyperlink while viewing on your computer to access
5 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2003
Gen EPA ID: CAD982495822

Shipment Date: 20031030
Creation Date: 8/9/2004 8:48:13
Receipt Date: 20031111
Manifest ID: 22415066
Trans EPA ID: CAL000027707
Trans Name: INSTA CLEAN WASTE RY
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: CAT080013352
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported

VALLEY TRANSMISSIONS (Continued) **1000455544**

Meth Code:	R01 - Recycler
Quantity Tons:	0.417
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:	20030910
Creation Date:	8/3/2004 15:00:31
Receipt Date:	20030916
Manifest ID:	22414995
Trans EPA ID:	CAL000027707
Trans Name:	INSTA CLEAN WASTE RECYCLING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.47955
Waste Quantity:	115
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:	20030717
Creation Date:	7/28/2004 10:48:03
Receipt Date:	20030725
Manifest ID:	22414930
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.52125
Waste Quantity:	125
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

VALLEY TRANSMISSIONS (Continued) **1000455544**

Shipment Date:	20030529
Creation Date:	7/22/2004 7:52:06
Receipt Date:	20030606
Manifest ID:	22414856
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5004
Waste Quantity:	120
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:	20030428
Creation Date:	9/2/2003 18:31:45
Receipt Date:	20030505
Manifest ID:	22414815
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.47955
Waste Quantity:	115
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:	20030306
Creation Date:	6/20/2003 18:30:47
Receipt Date:	20030311
Manifest ID:	21945561
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352

VALLEY TRANSMISSIONS (Continued) **1000455544**

Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.47955
Waste Quantity:	115
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:	20030110
Creation Date:	5/18/2003 14:28:17
Receipt Date:	20030114
Manifest ID:	21945490
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5421
Waste Quantity:	130
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:	2001
Gen EPA ID:	CAD982495822

Shipment Date:	20011218
Creation Date:	2/26/2002 0:00:00
Receipt Date:	20011220
Manifest ID:	21288932
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported

VALLEY TRANSMISSIONS (Continued) **1000455544**

Meth Code:	R01 - Recycler
Quantity Tons:	0.5421
Waste Quantity:	130
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:	20011105
Creation Date:	2/19/2002 0:00:00
Receipt Date:	20011107
Manifest ID:	21288867
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5004
Waste Quantity:	120
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:	20010918
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20010924
Manifest ID:	21441236
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5004
Waste Quantity:	120
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

VALLEY TRANSMISSIONS (Continued) **1000455544**

Shipment Date:	20010717
Creation Date:	10/3/2001 0:00:00
Receipt Date:	20010718
Manifest ID:	20663964
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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:	20010613
Creation Date:	8/24/2001 0:00:00
Receipt Date:	20010619
Manifest ID:	20663899
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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:	20010419
Creation Date:	7/10/2001 0:00:00
Receipt Date:	20010430
Manifest ID:	20663821
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352

VALLEY TRANSMISSIONS (Continued) **1000455544**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4795
Waste Quantity:	115
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:	20010112
Creation Date:	4/10/2001 0:00:00
Receipt Date:	20010116
Manifest ID:	20663668
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3961
Waste Quantity:	95
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:	1997
Gen EPA ID:	CAD982495822

Shipment Date:	19971212
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971216
Manifest ID:	97238154
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported

VALLEY TRANSMISSIONS (Continued) **1000455544**

Meth Code:	R01 - Recycler
Quantity Tons:	0.417
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:	19971114
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971119
Manifest ID:	97238102
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.417
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:	19971014
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19971017
Manifest ID:	97238041
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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

VALLEY TRANSMISSIONS (Continued) **1000455544**

Shipment Date:	19970910
Creation Date:	3/18/1998 0:00:00
Receipt Date:	19970911
Manifest ID:	96060777
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.417
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

Additional Info:

Year:	1999
Gen EPA ID:	CAD982495822

Shipment Date:	19991222
Creation Date:	3/7/2000 0:00:00
Receipt Date:	20000105
Manifest ID:	99563806
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3753
Waste Quantity:	90
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:	19991026
Creation Date:	1/11/2000 0:00:00
Receipt Date:	19991028
Manifest ID:	99563699
Trans EPA ID:	CAL000027707

VALLEY TRANSMISSIONS (Continued) **1000455544**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4795
Waste Quantity:	115
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:	19990810
Creation Date:	10/12/1999 0:00:00
Receipt Date:	19990811
Manifest ID:	98888361
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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:	19990512
Creation Date:	7/7/1999 0:00:00
Receipt Date:	19990512
Manifest ID:	98888256
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported

VALLEY TRANSMISSIONS (Continued) **1000455544**

Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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:	19990319
Creation Date:	5/20/1999 0:00:00
Receipt Date:	19990322
Manifest ID:	98888172
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5004
Waste Quantity:	120
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:	19990121
Creation Date:	3/17/1999 0:00:00
Receipt Date:	19990125
Manifest ID:	98888049
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5004
Waste Quantity:	120
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

VALLEY TRANSMISSIONS (Continued) **1000455544**

Additional Info:

Year:	2000
Gen EPA ID:	CAD982495822
Shipment Date:	20001106
Creation Date:	3/5/2001 0:00:00
Receipt Date:	20001116
Manifest ID:	20102768
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4795
Waste Quantity:	115
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:	20001004
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001009
Manifest ID:	20102711
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4378
Waste Quantity:	105
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:	20000815
Creation Date:	10/23/2000 0:00:00
Receipt Date:	20000821
Manifest ID:	20102620
Trans EPA ID:	CAL000027707

VALLEY TRANSMISSIONS (Continued) **1000455544**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5004
Waste Quantity:	120
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:	20000630
Creation Date:	9/11/2000 0:00:00
Receipt Date:	20000710
Manifest ID:	97377961
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4795
Waste Quantity:	115
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:	20000518
Creation Date:	7/12/2000 0:00:00
Receipt Date:	20000523
Manifest ID:	20102476
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported

VALLEY TRANSMISSIONS (Continued) **1000455544**

Meth Code:	R01 - Recycler
Quantity Tons:	0.4378
Waste Quantity:	105
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:	20000317
Creation Date:	5/30/2000 0:00:00
Receipt Date:	20000322
Manifest ID:	99563948
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5421
Waste Quantity:	130
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:	20000208
Creation Date:	5/1/2000 0:00:00
Receipt Date:	20000217
Manifest ID:	99563882
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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

VALLEY TRANSMISSIONS (Continued) **1000455544**

Additional Info:

Year:	1998
Gen EPA ID:	CAD982495822
Shipment Date:	19981111
Creation Date:	1/13/1999 0:00:00
Receipt Date:	19981113
Manifest ID:	98041548
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4378
Waste Quantity:	105
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:	19981002
Creation Date:	12/7/1998 0:00:00
Receipt Date:	19981007
Manifest ID:	98041478
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5004
Waste Quantity:	120
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:	19980818
Creation Date:	11/2/1998 0:00:00
Receipt Date:	19980826
Manifest ID:	98041399
Trans EPA ID:	CAL000027707

VALLEY TRANSMISSIONS (Continued) **1000455544**

Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3753
Waste Quantity:	90
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:	19980716
Creation Date:	10/1/1998 0:00:00
Receipt Date:	19980720
Manifest ID:	98041241
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.417
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:	19980611
Creation Date:	9/3/1998 0:00:00
Receipt Date:	19980615
Manifest ID:	98041270
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported

VALLEY TRANSMISSIONS (Continued) **1000455544**

Meth Code:	R01 - Recycler
Quantity Tons:	0.417
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:	19980508
Creation Date:	8/3/1998 0:00:00
Receipt Date:	19980512
Manifest ID:	98013631
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5212
Waste Quantity:	125
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:	19980325
Creation Date:	6/16/1998 0:00:00
Receipt Date:	19980330
Manifest ID:	97238320
Trans EPA ID:	CAL000027207
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5004
Waste Quantity:	120
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

VALLEY TRANSMISSIONS (Continued) **1000455544**

Shipment Date:	19980116
Creation Date:	4/16/1998 0:00:00
Receipt Date:	19980122
Manifest ID:	97238208
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.3753
Waste Quantity:	90
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:	1995
Gen EPA ID:	CAD982495822

Shipment Date:	19950802
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950802
Manifest ID:	95245765
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5212
Waste Quantity:	125
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:	2004
Gen EPA ID:	CAD982495822

VALLEY TRANSMISSIONS (Continued) **1000455544**

Shipment Date:	20041021
Creation Date:	1/20/2005 18:31:32
Receipt Date:	20041027
Manifest ID:	23422725
Trans EPA ID:	CAL000027707
Trans Name:	INSTA CLEAN WASTE RECY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	NON
Meth Code:	- Not reported
Quantity Tons:	0.52125
Waste Quantity:	125
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:	20040910
Creation Date:	12/21/2004 18:30:50
Receipt Date:	20040914
Manifest ID:	23422675
Trans EPA ID:	CAL000027707
Trans Name:	INSTA CLEAN WASTE RECYCLING
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO /KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	NON
Meth Code:	- Not reported
Quantity Tons:	0.417
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:	20040604
Creation Date:	11/1/2004 9:00:46
Receipt Date:	20040609
Manifest ID:	23422539
Trans EPA ID:	CAL000027707
Trans Name:	INSTA CLEAN WASTE RY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352

VALLEY TRANSMISSIONS (Continued) **1000455544**

Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	NON
Meth Code:	- Not reported
Quantity Tons:	0.47955
Waste Quantity:	115
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:	20040331
Creation Date:	10/14/2004 7:49:48
Receipt Date:	20040406
Manifest ID:	23422449
Trans EPA ID:	CAL000027707
Trans Name:	INSTA CLEAN WASTE RY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.4587
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:	20040219
Creation Date:	8/23/2004 8:11:36
Receipt Date:	20040220
Manifest ID:	22827171
Trans EPA ID:	CAL000027707
Trans Name:	INSTA CLEAN WASTE RY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.43785
Waste Quantity:	105
Quantity Unit:	G

VALLEY TRANSMISSIONS (Continued) **1000455544**

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:	20040108
Creation Date:	11/18/2004 8:25:56
Receipt Date:	20040115
Manifest ID:	22415140
Trans EPA ID:	CAL000027707
Trans Name:	INSTA CLEAN WASTE RY
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.5004
Waste Quantity:	120
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:	2002
Gen EPA ID:	CAD982495822
Shipment Date:	20021119
Creation Date:	3/27/2003 18:31:27
Receipt Date:	20021125
Manifest ID:	21945419
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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

VALLEY TRANSMISSIONS (Continued) **1000455544**

Shipment Date:	20020924
Creation Date:	2/10/2003 18:31:16
Receipt Date:	20021002
Manifest ID:	21945335
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.43785
Waste Quantity:	105
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:	20020715
Creation Date:	3/12/2003 18:31:29
Receipt Date:	20020718
Manifest ID:	21945223
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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:	20020613
Creation Date:	9/18/2002 18:31:39
Receipt Date:	20020624
Manifest ID:	21660858
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352

VALLEY TRANSMISSIONS (Continued) **1000455544**

Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.417
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:	20020501
Creation Date:	7/29/2002 18:40:54
Receipt Date:	20020506
Manifest ID:	21289148
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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:	20020226
Creation Date:	7/22/2002 18:32:38
Receipt Date:	20020304
Manifest ID:	21289049
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.35445
Waste Quantity:	85
Quantity Unit:	G

VALLEY TRANSMISSIONS (Continued) **1000455544**

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:	20020125
Creation Date:	7/2/2002 18:32:18
Receipt Date:	20020131
Manifest ID:	21288986
Trans EPA ID:	CAL000027707
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.4587
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

San Bern. Co. Permit:

Name:	ADVANCED ALTERNATOR EXCHANGE
Address:	1700 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0000293
Owner:	RAFFI DAVOUDI
Permit Number:	PT0005541
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	11/30/2020
Name:	AGELESS CLASSIC CARS
Address:	1700 W FOOTHILL BLVD STE F
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0018259
Owner:	RIVERA, ISRAEL
Permit Number:	PT0039464
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	05/31/2020
Name:	ADVANCED ALTERNATOR EXCHANGE
Address:	1700 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO

VALLEY TRANSMISSIONS (Continued) **1000455544**

Facility ID: FA0000293
Owner: RAFFI DAVOUDI
Permit Number: PT0038374
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: FEE EXEMPT
Expiration Date: 11/30/2018

Name: VALLEY TRANSMISSION, INC.
Address: 1700 W FOOTHILL BLVD UNIT D
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0007029
Owner: GALO, DIAZ DE TUESTA
Permit Number: PT0005544
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 07/31/2005

Name: VALLEY TRANSMISSION, INC.
Address: 1700 W FOOTHILL BLVD UNIT D
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0007029
Owner: GALO, DIAZ DE TUESTA
Permit Number: PT0005543
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 07/31/2005

CERS:
Name: ADVANCED ALTERNATOR EXCHANGE
Address: 1700 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 89826
CERS ID: 10034509
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 89826
Site Name: ADVANCED ALTERNATOR EXCHANGE
Violation Date: 06-16-2020
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: OBSERVATION: At the time of inspection EPA ID number CAL000385708 was inactive. CORRECTIVE ACTION: Reactivate EPA ID number CAL000385708 by submitting form 1358 to DTSC.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 89826
Site Name: ADVANCED ALTERNATOR EXCHANGE
Violation Date: 04-06-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5,

VALLEY TRANSMISSIONS (Continued) **1000455544**

Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 04/11/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2017
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: 06-16-2020
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: 11-26-2013
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

Enforcement Action:
Site ID: 89826
Site Name: ADVANCED ALTERNATOR EXCHANGE
Site Address: 1700 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-06-2017
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: HW
Enf Action Source: CERS

Coordinates:
Site ID: 89826
Facility Name: ADVANCED ALTERNATOR EXCHANGE
Env Int Type Code: HMBP
Program ID: 10034509

VALLEY TRANSMISSIONS (Continued) **1000455544**

Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.105869
Longitude: -117.683197

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: RAFIA DAVOUDI
Entity Title: Not reported
Affiliation Address: 1700 W FOOTHILL BLVD
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: 1700 W FOOTHILL BLVD
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: RAFFI DAVOUDI
Entity Title: Not reported
Affiliation Address: 1700 W FOOTHILL BLVD
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91786
Affiliation Phone: (909) 949-1515

Affiliation Type Desc: Parent Corporation
Entity Name: ADVANCED ALTERNATOR EXCHANGE
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San 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

VALLEY TRANSMISSIONS (Continued) **1000455544**

HWTS:

Name:	VALLEY TRANSMISSIONS
Address:	1700 W FOOTHILL
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAD982495822
Inactive Date:	06/30/2004
Create Date:	08/14/1990
Last Act Date:	04/03/2006
Mailing Name:	Not reported
Mailing Address:	1700 W FOOTHILL BLVD STE D
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917863517
Owner Name:	GALO DIAZ DE TUESTA
Owner Address:	1700 W FOOTHILL BLVD STE D
Owner Address 2:	Not reported
Owner City,State,Zip:	UPLAND, CA 917863517
Contact Name:	GALO DIAZ DE TUESTA
Contact Address:	1700 W FOOTHILL
Contact Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000

Name:	ADVANCED ALTERNATOR EXCHANGE
Address:	1700 W FOOTHILL BLVD
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000385708
Inactive Date:	06/30/2017
Create Date:	05/23/2013
Last Act Date:	04/21/2017
Mailing Name:	Not reported
Mailing Address:	1700 W FOOTHILL BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	RAFIA DAVOUDI
Owner Address:	10014 CLYBOURN AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	SUNLAND, CA 91040
Contact Name:	ARMEN R DAVONDI
Contact Address:	10014 CLYBOURN AVE
Contact Address 2:	Not reported
City,State,Zip:	SUNLAND, CA 91040

NAICS:

EPA ID:	CAL000385708
Create Date:	2013-05-23 15:36:11.280
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2013-05-23 15:36:11.26000
Inactive Date:	2017-06-30 00:00:00
Facility Name:	ADVANCED ALTERNATOR EXCHANGE
Facility Address:	1700 W FOOTHILL BLVD
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91786

D40
East
< 1/8
0.053 mi.
279 ft.

SPEEDWAY MUFFLER
1700 W FOOTHILL BLVD UNIT B
UPLAND, CA 91786

Site 17 of 17 in cluster D

San Bern. Co. Permit **S104770399**
CERS **N/A**

Relative:
Lower

Actual:
1343 ft.

San Bern. Co. Permit:

Name:	SPEEDWAY MUFFLER
Address:	1700 W FOOTHILL BLVD UNIT B
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006338
Owner:	SARO GIRGOSIAN
Permit Number:	PT0005542
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	11/30/2020

CERS:

Name:	SPEEDWAY MUFFLER
Address:	1700 W FOOTHILL BLVD UNIT B
City,State,Zip:	UPLAND, CA 91786
Site ID:	70007
CERS ID:	10045015
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	70007
Site Name:	SPEEDWAY MUFFLER
Violation Date:	08-18-2020
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	OBSERVATION: At the time of inspection the new owner had not yet obtained CUPA permits with this Division. CORRECTIVE ACTION: Contact this Division regarding hazardous materials handler permit and pay permit fees within 30 days.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	70007
Site Name:	SPEEDWAY MUFFLER
Violation Date:	08-18-2020
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: At the time of inspection the new owner has not established and implemented a business plan. CORRECTIVE ACTION: Submit a complete business plan via CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	70007
Site Name:	SPEEDWAY MUFFLER
Violation Date:	11-26-2013

SPEEDWAY MUFFLER (Continued) **S104770399**

Citation: HSC 6.95 25503.5(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25503.5(a)
Violation Description: Owner/Operator failed to establish and implement a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 02/21/2014.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 70007
Site Name: SPEEDWAY MUFFLER
Violation Date: 11-26-2013
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 02/21/2014.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 70007
Site Name: SPEEDWAY MUFFLER
Violation Date: 05-09-2017
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 05/10/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-09-2017
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
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-18-2020
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: 11-26-2013

SPEEDWAY MUFFLER (Continued) **S104770399**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION -BP
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 70007
Site Name: SPEEDWAY MUFFLER
Site Address: 1700 W FOOTHILL BLVD UNIT B
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 05-09-2017
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: HMRRP
Enf Action Source: CERS

Site ID: 70007
Site Name: SPEEDWAY MUFFLER
Site Address: 1700 W FOOTHILL BLVD UNIT B
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 11-26-2013
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
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1700 W FOOTHILL BLVD, UNIT 'B'
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: SPEEDWAY MUFFLER
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

SPEEDWAY MUFFLER (Continued) **S104770399**

Entity Name:	SARO GIRGOSIAN
Entity Title:	Not reported
Affiliation Address:	1700 W FOOTHILL BLVD
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 981-4366
Affiliation Type Desc:	Environmental Contact
Entity Name:	Arlen Giragosian
Entity Title:	Not reported
Affiliation Address:	1464 Sugar Loaf Dr.
Affiliation City:	La Canada Flintridge
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91011
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:	Identification Signer
Entity Name:	Arlen Giragosian
Entity Title:	Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	SERGE GHARAKHANIAN
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) 981-4366

E41 **BERRY CONSTRUCTION** **RCRA-SQG** **1000372175**
SSW **1921 W 11TH ST** **SWEEPS UST** **CAD981970437**
< 1/8 **UPLAND, CA 91786** **HIST UST**
0.059 mi. **CA FID UST**
311 ft. **Site 1 of 6 in cluster E** **FINDS**
ECHO

Relative:
Lower

Actual:
1321 ft.

RCRA-SQG:

Date Form Received by Agency:		1986-05-21 00:00:00.0
Handler Name:	BERRY CONSTRUCTION	
Handler Address:		1921 W 11TH ST
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAD981970437
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		1921 W 11TH ST
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		714-985-9661
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Other
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:		CA
State District:		4
Mailing Address:		1921 W 11TH ST
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		BERRY CONSTRUCTION
Owner Type:		Private
Operator Name:		NOT REQUIRED
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:		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

BERRY CONSTRUCTION (Continued) **1000372175**

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:	2002-06-27 03:31:34.0
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:	BERRY CONSTRUCTION
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:	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

BERRY CONSTRUCTION (Continued) **1000372175**

Historic Generators:
Receive Date: 1986-05-21 00:00:00.0
Handler Name: BERRY CONSTRUCTION
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
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: 23332
NAICS Description: COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

SWEEPS UST:
Name: BERRY CONSTRUCTION, INC.
Address: 1921 W 011TH ST
City: UPLAND
Status: Active
Comp Number: 42419
Number: 9
Board Of Equalization: 44-021015
Referral Date: 06-30-88
Action Date: 06-30-88
Created Date: 02-29-88
Owner Tank Id: 1
SWRCB Tank Id: 36-000-042419-000001
Tank Status: A
Capacity: 9940
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 2

Name: BERRY CONSTRUCTION, INC.
Address: 1921 W 011TH ST
City: UPLAND
Status: Active
Comp Number: 42419
Number: 9
Board Of Equalization: 44-021015
Referral Date: 06-30-88
Action Date: 06-30-88

BERRY CONSTRUCTION (Continued) **1000372175**

Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 36-000-042419-000002
Tank Status: A
Capacity: 5000
Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

HIST UST:
Name: BERRY CONSTRUCTION, INC.
Address: 1921 W 11TH ST
City,State,Zip: UPLAND, CA 91786
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000042419
Facility Type: Other
Other Type: CONTRACTOR
Contact Name: CRAIG M. BERRY
Telephone: 7149859661
Owner Name: BERRY CONSTRUCTION, INC.
Owner Address: 1921 WEST 11TH STREET
Owner City,St,Zip: UPLAND, CA 91786
Total Tanks: 0002

Tank Num: 001
Container Num: 1
Year Installed: 1982
Tank Capacity: 00009940
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1982
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

CA FID UST:
Facility ID: 36008986
Regulated By: UTNKA
Regulated ID: 00042419
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1921 W 011TH ST
Mailing Address 2: Not reported

BERRY CONSTRUCTION (Continued) **1000372175**

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

FINDS:
Registry ID: 110002759934

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: 1000372175
Registry ID: 110002759934
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002759934
Name: BERRY CONSTRUCTION
Address: 1921 W 11TH ST
City,State,Zip: UPLAND, CA 91786

E42 **VCI TELECOM** **HIST UST** **S112929254**
SSW **1921 WEST 11TH ST** **HAZNET** **N/A**
< 1/8 **UPLAND, CA 91786** **HWTS**
0.059 mi.
311 ft. **Site 2 of 6 in cluster E**

Relative: **Lower**
Actual: **1321 ft.**

HIST UST:
Name: BERRY CONSTRUCTION INC
Address: 1921 WEST 11TH STREET
City,State,Zip: UPLAND, CA 91786
File Number: 00029A00
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029A00.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

VCI TELECOM (Continued) **S112929254**

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:

HAZNET:

Name:	VCI TELECOM
Address:	1921 WEST 11TH ST
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
Contact:	ROY BROWN
Telephone:	9099460905
Mailing Name:	Not reported
Mailing Address:	1921 WEST 11TH ST
Year:	2003
Gepaid:	CAC002564256
TSD EPA ID:	CAT080033681
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	0.1
Year:	2003
Gepaid:	CAC002564256
TSD EPA ID:	CAT080033681
CA Waste Code:	181 - Other inorganic solid waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0.2

Additional Info:

Year:	2003
Gen EPA ID:	CAC002564256
Shipment Date:	20030602
Creation Date:	7/22/2004 7:52:06
Receipt Date:	20030605
Manifest ID:	22547500
Trans EPA ID:	CAD983609678
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P

VCI TELECOM (Continued) **S112929254**

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:	20030417
Creation Date:	6/23/2004 9:59:25
Receipt Date:	20030425
Manifest ID:	22486836
Trans EPA ID:	CAD983609678
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
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

HWTS:

Name:	VCI TELECOM
Address:	1921 WEST 11TH ST
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAC001446280
Inactive Date:	09/11/2001
Create Date:	03/09/2001
Last Act Date:	09/11/2001
Mailing Name:	ROBERT LENT
Mailing Address:	1921 WEST 11TH ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917860000
Owner Name:	VCI TELECOM
Owner Address:	1921 WEST 11TH ST
Owner Address 2:	Not reported
Owner City,State,Zip:	UPLAND, CA 917860000
Contact Name:	ERIC HEASLEY/FILTER RECYCLING
Contact Address:	180 W MONTE
Contact Address 2:	Not reported
City,State,Zip:	RIALTO, CA 927360000
Name:	VCI TELECOM
Address:	1921 WEST 11TH ST
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAC002564256

VCI TELECOM (Continued) **S112929254**

Inactive Date:	10/14/2003
Create Date:	04/16/2003
Last Act Date:	04/16/2003
Mailing Name:	ROBERT LENT
Mailing Address:	1921 WEST 11TH ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917860000
Owner Name:	VCI TELECOM
Owner Address:	1921 WEST 11TH ST
Owner Address 2:	Not reported
Owner City,State,Zip:	UPLAND, CA 917860000
Contact Name:	ROY BROWN
Contact Address:	180 W MONTE
Contact Address 2:	Not reported
City,State,Zip:	RIALTO, CA 927360000

E43 **VCI CONSTRUCTION INC** **RCRA NonGen / NLR** **1024817446**
SSW **1921 W 11TH ST** **CAL000321658**
< 1/8 **UPLAND, CA 91786**
0.059 mi.
311 ft. **Site 3 of 6 in cluster E**

Relative: **Lower**
Actual: **1321 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2007-07-02 00:00:00.0
Handler Name:	VCI CONSTRUCTION INC	
Handler Address:		1921 W 11TH ST
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAL000321658
Contact Name:		CARLOS BUGARIN
Contact Address:		1921 W 11TH ST
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		626-523-3206
Contact Fax:		909-981-8302
Contact Email:		CBUGARIN@VCICOM.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:		1921 W 11TH ST
Mailing City,State,Zip:		UPLAND, CA 91786-0000
Owner Name:		VCI CONSTRUCTION, LLC
Owner Type:		Other
Operator Name:		CARLOS BUGARIN
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

VCI CONSTRUCTION INC (Continued) **1024817446**

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 20:29:23.0
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:	VCI CONSTRUCTION, LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1921 W 11TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000

VCI CONSTRUCTION INC (Continued) **1024817446**

Owner/Operator Telephone: 909-946-0905
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CARLOS BUGARIN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1921 W 11TH ST
Owner/Operator City,State,Zip: UPLAND, CA 91786
Owner/Operator Telephone: 626-523-3206
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2007-07-02 00:00:00.0
Handler Name: VCI CONSTRUCTION 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: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 23492
NAICS Description: POWER AND COMMUNICATION TRANSMISSION LINE CONSTRUCTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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44 **FUEL MRKT** **EDR Hist Auto** **1021945509**
WSW **888 BERRY CT** **N/A**
< 1/8 **UPLAND, CA 91786**
0.081 mi.
428 ft.

Relative: EDR Hist Auto
Lower

Actual: Year: Name: Type:
1328 ft. 2010 FUEL MRKT Gasoline Service Stations, NEC

F45
WNW
< 1/8
0.092 mi.
484 ft.

WESTPORT UPLAND SELF STORAGE, LLC
1808 FOOTHILL BLVD
UPLAND, CA 91786

Site 1 of 2 in cluster F

RCRA NonGen / NLR | **1025837408** | **CAC003016998**

Relative:
Higher

Actual:
1354 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-05-29 00:00:00.0
Handler Name:	WESTPORT UPLAND SELF STORAGE, LLC
Handler Address:	1808 FOOTHILL BLVD
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAC003016998
Contact Name:	WESTPORT UPLAND SELF STORAGE, LLC
Contact Address:	2201 DUPONT DRIVE SUITE 700
Contact City,State,Zip:	IRVINE, CA 92612
Contact Telephone:	949-748-5924
Contact Fax:	Not reported
Contact Email:	JONATHANJACKSONCOMPANY@GMAIL.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:	2201 DUPONT DRIVE SUITE 700
Mailing City,State,Zip:	IRVINE, CA 92612
Owner Name:	WESTPORT UPLAND SELF STORAGE, LLC
Owner Type:	Other
Operator Name:	WESTPORT UPLAND SELF STORAGE, LLC
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

WESTPORT UPLAND SELF STORAGE, LLC (Continued) **1025837408**

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:	2019-06-27 14:19:08.0
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:	WESTPORT UPLAND SELF STORAGE, LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2201 DUPONT DRIVE SUITE 700
Owner/Operator City,State,Zip:	IRVINE, CA 92612
Owner/Operator Telephone:	949-748-5924
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WESTPORT UPLAND SELF STORAGE, LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2201 DUPONT DRIVE SUITE 700
Owner/Operator City,State,Zip:	IRVINE, CA 92612
Owner/Operator Telephone:	949-748-5924
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

WESTPORT UPLAND SELF STORAGE, LLC (Continued) **1025837408**

Historic Generators:
Receive Date: 2019-05-29 00:00:00.0
Handler Name: WESTPORT UPLAND SELF STORAGE, LLC
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

F46 **ALL AROUND PEST & TERMITE** **San Bern. Co. Permit** **S106910664**
WNW **1810 FOOTHILL BLVD A** **N/A**
< 1/8 **UPLAND, CA 91786**
0.095 mi.
501 ft. **Site 2 of 2 in cluster F**

Relative: Higher

Actual: 1354 ft.

San Bern. Co. Permit:
Name: ALL AROUND PEST & TERMITE
Address: 1810 FOOTHILL BLVD A
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000821
Owner: ALL AROUND PEST & TERMITE
Permit Number: PT0004267
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 05/31/2004

Name: ALL AROUND PEST & TERMITE
Address: 1810 FOOTHILL BLVD A
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000821
Owner: ALL AROUND PEST & TERMITE
Permit Number: PT0004266
Permit Category: HAZARDOUS WASTE GENERATOR - 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 05/31/2004

G47
NE
< 1/8
0.101 mi.
532 ft.

DEL TACO #243
1653 W FOOTHILL BLVD
UPLAND, CA 91786

Site 1 of 6 in cluster G

San Bern. Co. Permit | **S109849271** / **N/A**

Relative:
Higher

Actual:
1360 ft.

San Bern. Co. Permit:

Name:	DEL TACO #243
Address:	1653 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0012548
Owner:	DEL TACO INC
Permit Number:	PT0021949
Permit Category:	BULK CO2 AT RETAIL FOOD FACILITIES
Facility Status:	INACTIVE
Expiration Date:	05/31/2010

48
West
< 1/8
0.106 mi.
559 ft.

DAVID SPENCER PAINTING
1810 W FOOTHILL BLVD
UPLAND, CA 91786

San Bern. Co. Permit | **S105698413** / **N/A**

Relative:
Lower

Actual:
1340 ft.

San Bern. Co. Permit:

Name:	DAVID SPENCER PAINTING
Address:	1810 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0007558
Owner:	SPENCER, DAVID & DESHANNA
Permit Number:	PT0012975
Permit Category:	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	12/31/2008

E49
SW
< 1/8
0.106 mi.
559 ft.

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY
822 BERRY CT
UPLAND, CA 91786

Site 4 of 6 in cluster E

RCRA NonGen / NLR | **1024814638** / **CAL000309889**

Relative:
Lower

Actual:
1317 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2006-08-07 00:00:00.0
Handler Name:	LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY
Handler Address:	822 BERRY CT
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000309889
Contact Name:	LARRY BURKE
Contact Address:	822 BERRY CT
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	909-982-1137
Contact Fax:	909-982-0465
Contact Email:	LARRYB.INTERSTATE@VERIZON.NET
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **1024814638**

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:	PO BOX 9227
Mailing City,State,Zip:	RANCHO CUCAMONGA, CA 91701-9227
Owner Name:	LARRY BURKE ENTERPRISES
Owner Type:	Other
Operator Name:	LARRY BURKE
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

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **1024814638**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:28:27.0
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:	LARRY BURKE ENTERPRISES
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	822 BERRY CT
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000
Owner/Operator Telephone:	909-982-1137
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LARRY BURKE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	822 BERRY CT
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-982-1137
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2006-08-07 00:00:00.0
Handler Name:	LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY
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:	44131
NAICS Description:	AUTOMOTIVE PARTS AND ACCESSORIES STORES

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **1024814638**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E50 **DISTRIBUTOR OPERATIONS INC DBA INTERSTATE BATTERIE** **RCRA NonGen / NLR** **1026056752**
SW **822 BERRY CT** **CAL000452941**
< 1/8 **UPLAND, CA 91786**
0.106 mi.
559 ft. **Site 5 of 6 in cluster E**

Relative: **Lower**
Actual: **1317 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-02-21 00:00:00.0
Handler Name:	DISTRIBUTOR OPERATIONS INC DBA INTERSTATE BATTERIES OF INLAND VALLEY
Handler Address:	822 BERRY CT
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000452941
Contact Name:	JOHNNY COPPOLA
Contact Address:	822 BERRY CT
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	909-982-1137
Contact Fax:	Not reported
Contact Email:	JOHNNY.COPPOLA@IBSA.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:	822 BERRY CT
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	DISTRIBUTORS OPERATIONS INC
Owner Type:	Other
Operator Name:	JOHNNY COPPOLA
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

DISTRIBUTOR OPERATIONS INC DBA INTERSTATE BATTERIES OF INLAN (Continued) **1026056752**

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:	2020-03-06 18:11:45.0
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:	JOHNNY COPPOLA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	822 BERRY CT
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-982-1137
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	DISTRIBUTORS OPERATIONS INC
Legal Status:	Other

DISTRIBUTOR OPERATIONS INC DBA INTERSTATE BATTERIES OF INLAN (Continued) **1026056752**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	12770 MERIT DR STE 1000
Owner/Operator City,State,Zip:	DALLAS, TX 75251
Owner/Operator Telephone:	972-455-6543
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-02-21 00:00:00.0
Handler Name:	DISTRIBUTOR OPERATIONS INC DBA INTERSTATE BATTERIES OF INLAND VALLEY
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:	441310
NAICS Description:	AUTOMOTIVE PARTS AND ACCESSORIES STORES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E51 **LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY** **CERS HAZ WASTE** **S121309865**
SW **822 BERRY CT** **HAZNET** **N/A**
< 1/8 **UPLAND, CA 91786** **San Bern. Co. Permit**
0.106 mi. **CERS**
559 ft. **Site 6 of 6 in cluster E** **HWTS**

Relative: **Lower**

Actual: **1317 ft.**

CERS HAZ WASTE:

Name:	INTERSTATE BATTERY INLAND EMPIRE
Address:	822 BERRY CT
City,State,Zip:	UPLAND, CA 91786
Site ID:	124612
CERS ID:	10311910
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY
Address:	822 BERRY CT
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786
Contact:	LARRY BURKE
Telephone:	9099821137

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **S121309865**

Mailing Name: Not reported
Mailing Address: PO BOX 9227

Year: 2017
Gepaid: CAL000309889
TSD EPA ID: NVT330010000
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.21

Year: 2017
Gepaid: CAL000309889
TSD EPA ID: NVT330010000
CA Waste Code: 121 - Alkaline solution (pH >= 12.5) with metals
Disposal Method: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.417

Additional Info:
Year: 2017
Gen EPA ID: CAL000309889

Shipment Date: 20170807
Creation Date: 8/2/2018 18:30:29
Receipt Date: 20170825
Manifest ID: 003458293GBF
Trans EPA ID: CA0000039792
Trans Name: KWIK-KLEEN
Trans 2 EPA ID: CAD980585293
Trans 2 Name: INDUSTRIAL WASTE UTILIZATION
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY
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: D008
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.417
Waste Quantity: 100
Quantity Unit: G
Additional Code 1: D002
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20170807
Creation Date: 8/2/2018 18:30:29
Receipt Date: 20170825
Manifest ID: 003458293GBF
Trans EPA ID: CA0000039792
Trans Name: KWIK-KLEEN

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **S121309865**

Trans 2 EPA ID:	CAD980585293
Trans 2 Name:	INDUSTRIAL WASTE UTILIZATION
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	D008
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.21
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

San Bern. Co. Permit:

Name:	INTERSTATE BATTERY INLAND EMPIRE
Address:	822 BERRY CT
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0013664
Owner:	LARRY BURKE ENTERPRISES
Permit Number:	PT0023980
Permit Category:	LARGE QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	12/31/2020

Name:	INTERSTATE BATTERY INLAND EMPIRE
Address:	822 BERRY CT
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0013664
Owner:	LARRY BURKE ENTERPRISES
Permit Number:	PT0023979
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	12/31/2020

CERS:

Name:	INTERSTATE BATTERY INLAND EMPIRE
Address:	822 BERRY CT
City,State,Zip:	UPLAND, CA 91786
Site ID:	124612
CERS ID:	10311910
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	124612
Site Name:	INTERSTATE BATTERY INLAND EMPIRE
Violation Date:	04-28-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation -

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **S121309865**

	General
Violation Notes:	Returned to compliance on 06/21/2017. 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:	124612
Site Name:	INTERSTATE BATTERY INLAND EMPIRE
Violation Date:	04-28-2017
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 06/21/2017. Failure to manage hazardous waste lawfully (CHSC 25154)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	124612
Site Name:	INTERSTATE BATTERY INLAND EMPIRE
Violation Date:	04-28-2017
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 06/21/2017. Failure to determine if waste is hazardous waste (CCR 66262.11)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	124612
Site Name:	INTERSTATE BATTERY INLAND EMPIRE
Violation Date:	04-28-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 06/21/2017. Failure to retain Hazardous Waste Analyses for at least 3 years (CCR 66262.40(c))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	124612
Site Name:	INTERSTATE BATTERY INLAND EMPIRE
Violation Date:	04-28-2017
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 06/15/2017.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **S121309865**

Site ID: 124612
Site Name: INTERSTATE BATTERY INLAND EMPIRE
Violation Date: 04-28-2017
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 a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 06/15/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 124612
Site Name: INTERSTATE BATTERY INLAND EMPIRE
Violation Date: 09-15-2020
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 and accurate on or before the annual due date.
Violation Notes: OBSERVATION: The Hazardous Materials Business Plan was last certified via CERS on 2/26/2019. Your CERS ID number is 10311910. CORRECTIVE ACTION: Review and certify the facility business plan and re certify the business plan electronically via CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-28-2017
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

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-28-2017
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: 09-15-2020
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

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **S121309865**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-15-2020
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: 12-04-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: interstate bat
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-04-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: interstate batt- insp
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 124612
Site Name: INTERSTATE BATTERY INLAND EMPIRE
Site Address: 822 BERRY CT
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-28-2017
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: HMRRP
Enf Action Source: CERS

Site ID: 124612
Site Name: INTERSTATE BATTERY INLAND EMPIRE
Site Address: 822 BERRY CT
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-28-2017
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: HW
Enf Action Source: CERS

Coordinates:
Site ID: 124612

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **S121309865**

Facility Name:	INTERSTATE BATTERY INLAND EMPIRE
Env Int Type Code:	HMBP
Program ID:	10311910
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	34.103870
Longitude:	-117.686880

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	Distributor Operations Inc.
Entity Title:	Not reported
Affiliation Address:	12770 Merit Drive
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75251
Affiliation Phone:	(972) 455-6543

Affiliation Type Desc:	Document Preparer
Entity Name:	Adam Reed
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:	822 Berry Ct
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Johnny Coppola
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:	(714) 719-1019

Affiliation Type Desc:	Parent Corporation
Entity Name:	INTERSTATE BATTERY SYS OF AMERICA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **S121309865**

Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Adam Reed
Entity Title: Not reported
Affiliation Address: 12770 Merit Drive
Affiliation City: Dallas
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 75251
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: Identification Signer
Entity Name: Adam Reed
Entity Title: Environmental Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY
Address: 822 BERRY CT
Address 2: Not reported
City,State,Zip: UPLAND, CA 91786
EPA ID: CAL000309889
Inactive Date: 06/30/2020
Create Date: 08/07/2006
Last Act Date: 08/12/2020
Mailing Name: Not reported
Mailing Address: PO BOX 9227
Mailing Address 2: Not reported
Mailing City,State,Zip: RANCHO CUCAMONGA, CA 917019227
Owner Name: LARRY BURKE ENTERPRISES
Owner Address: 822 BERRY CT
Owner Address 2: Not reported
Owner City,State,Zip: UPLAND, CA 917860000
Contact Name: LARRY BURKE
Contact Address: 822 BERRY CT
Contact Address 2: Not reported
City,State,Zip: UPLAND, CA 91786

NAICS:
EPA ID: CAL000309889

LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY (Continued) **S121309865**

Create Date:	2006-08-07 08:23:37.930
NAICS Code:	44131
NAICS Description:	Automotive Parts and Accessories Stores
Issued EPA ID Date:	2006-08-07 08:23:37.89700
Inactive Date:	2020-06-30 00:00:00
Facility Name:	LARRY BURKE ENTERPRISES DBA INTERSTATE BATTERY
Facility Address:	822 BERRY CT
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91786

Name:	DISTRIBUTOR OPERATIONS INC DBA INTERSTATE BATTERIES OF INLAND VALLEY
Address:	822 BERRY CT
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000452941
Inactive Date:	Not reported
Create Date:	02/21/2020
Last Act Date:	09/15/2020
Mailing Name:	Not reported
Mailing Address:	822 BERRY CT
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	DISTRIBUTORS OPERATIONS INC
Owner Address:	12770 MERIT DR STE 1000
Owner Address 2:	Not reported
Owner City,State,Zip:	DALLAS, TX 75251
Contact Name:	JOHNNY COPPOLA
Contact Address:	822 BERRY CT
Contact Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000

NAICS:

EPA ID:	CAL000452941
Create Date:	2020-02-21 11:32:49.860
NAICS Code:	441310
NAICS Description:	Automotive Parts and Accessories Stores
Issued EPA ID Date:	2020-02-21 11:32:49.83000
Inactive Date:	Not reported
Facility Name:	DISTRIBUTOR OPERATIONS INC DBA INTERSTATE BATTERIES OF INLAND VALLEY
Facility Address:	822 BERRY CT
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91786

H52 **JIFFY LUBE #1876** **AST** **A100345836**
ENE **1640 W FOOTHILL BLVD** **N/A**
< 1/8 **UPLAND, CA 91786**
0.125 mi.
660 ft. **Site 1 of 5 in cluster H**

Relative:
Higher

Actual:
1352 ft.

AST:

Name:	JIFFY LUBE #1876
Address:	1640 W FOOTHILL BLVD
City/Zip:	UPLAND,91786
Certified Unified Program Agencies:	Not reported
Owner:	A FANTICOLA COMPANIES, INC
Total Gallons:	Not reported
CERSID:	10040914
Facility ID:	FA0004131
Business Name:	Heartland Group
Phone:	9099816033
Fax:	8479604990
Mailing Address:	105 DECKER COURT, STE 900
Mailing Address City:	IRVING
Mailing Address State:	TX
Mailing Address Zip Code:	75062
Operator Name:	A. FANTICOLA COMPANIES, INC.
Operator Phone:	9728127900
Owner Phone:	9728127900
Owner Mail Address:	105 DECKER CT STE 900
Owner State:	TX
Owner Zip Code:	75062
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:	CAL000205459

Name:	JIFFY LUBE #1876
Address:	1640 W. FOOTHILL BLVD
City/Zip:	UPLAND,
Certified Unified Program Agencies:	San Bernardino
Owner:	A FANTICOLA COMPANIES, INC.
Total Gallons:	5,610
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported

JIFFY LUBE #1876 (Continued) **A100345836**

Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

H53 **TEAM CAR CARE WEST LLC DBA JIFFY LUBE** **RCRA NonGen / NLR** **1024869812**
ENE **1640 W FOOTHILL BLVD** **CAL000438431**
< 1/8 **UPLAND, CA 91786**
0.125 mi.
660 ft. **Site 2 of 5 in cluster H**

Relative: **Higher**

Actual: **1352 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2018-08-15 00:00:00.0
Handler Name:	TEAM CAR CARE WEST LLC DBA JIFFY LUBE
Handler Address:	1640 W FOOTHILL BLVD
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000438431
Contact Name:	JAMES WILLIS
Contact Address:	105 DECKER COURT SUITE 900
Contact City,State,Zip:	IRVING, TX 75062
Contact Telephone:	972-812-7935
Contact Fax:	469-426-3960
Contact Email:	JAMES.WILLIS@JIFFYWORLD.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:	105 DECKER CT STE 900
Mailing City,State,Zip:	IRVING, TX 75062-0000
Owner Name:	TEAM CAR CARE W LLC DBA JIFFY LUBE
Owner Type:	Other
Operator Name:	JAMES WILLIS
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

TEAM CAR CARE WEST LLC DBA JIFFY LUBE (Continued) **1024869812**

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 19:38:50.0
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:	Operator
Owner/Operator Name:	JAMES WILLIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	105 DECKER COURT SUITE 900
Owner/Operator City,State,Zip:	IRVING, TX 75062
Owner/Operator Telephone:	972-812-7935
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner

TEAM CAR CARE WEST LLC DBA JIFFY LUBE (Continued) **1024869812**

Owner/Operator Name: TEAM CAR CARE W LLC DBA JIFFY LUBE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 105 DECKER CT STE 900
Owner/Operator City,State,Zip: IRVING, TX 75062-0000
Owner/Operator Telephone: 972-812-7900
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2018-08-15 00:00:00.0
Handler Name: TEAM CAR CARE WEST LLC DBA JIFFY LUBE
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: 811198
NAICS Description: ALL OTHER AUTOMOTIVE REPAIR AND MAINTENANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

H54 **JIFFY LUBE #1676** **CERS HAZ WASTE** **S104905298**
ENE **1640 W FOOTHILL BLVD** **CERS TANKS** **N/A**
< 1/8 **UPLAND, CA 91786** **San Bern. Co. Permit**
0.125 mi. **CERS**
660 ft. **Site 3 of 5 in cluster H**

Relative: **Higher**
Actual: **1352 ft.**

CERS HAZ WASTE:
Name: JIFFY LUBE #1676
Address: 1640 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 126057
CERS ID: 10040914
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: JIFFY LUBE #1676
Address: 1640 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 126057

JIFFY LUBE #1876 (Continued) **S104905298**

CERS ID: 10040914
CERS Description: Aboveground Petroleum Storage

San Bern. Co. Permit:
Name: JIFFY LUBE #1876
Address: 1640 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004131
Owner: TEAM CAR CARE WEST LLC
Permit Number: PT0000389
Permit Category: LARGE QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 11/30/2020

Name: JIFFY LUBE #1876
Address: 1640 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004131
Owner: TEAM CAR CARE WEST LLC
Permit Number: PT0000398
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2020

Name: JIFFY LUBE #1876
Address: 1640 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004131
Owner: TEAM CAR CARE WEST LLC
Permit Number: PT0000410
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 11/30/2020

CERS:
Name: JIFFY LUBE #1876
Address: 1640 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 126057
CERS ID: 10040914
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 126057
Site Name: JIFFY LUBE #1876
Violation Date: 03-04-2019
Citation: 22 CCR 15 66265.192(a) - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.192(a)
Violation Description: Failure to obtain and maintain a written assessment reviewed and certified by an independent, qualified, professional engineer prior to placing the tank system in service. The written assessment shall state that, the new hazardous waste tank system has sufficient structural integrity, is acceptable for the transferring, storing and treating of hazardous waste, and that the tanks and containment system including

JIFFY LUBE #1876 (Continued) **S104905298**

	the foundation, structural support, seams, connections, and pressure controls (if applicable) are suitably designed to meet the regulation.
Violation Notes:	OBSERVATION: A Professional Engineer hazardous waste tank assessment was not made available for review. CORRECTIVE ACTION: Conduct a PE certified hazardous waste tank assessment. Submit the documentation to this Division.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	126057
Site Name:	JIFFY LUBE #1876
Violation Date:	03-04-2019
Citation:	HSC 6.5 25160.2 - California Health and Safety Code, Chapter 6.5, 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: Waste manifests for 2017 and 2018 were not made available for review. CORRECTIVE ACTION: Submit 3 years of waste manifests to this Division.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	126057
Site Name:	JIFFY LUBE #1876
Violation Date:	03-04-2019
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 conduct spill prevention briefing for oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan.
Violation Notes:	OBSERVATION: Per the SPCC plan, spill prevention briefings shall be conducted and documented on an annual basis. At time of inspection, the documentation was not made available for review. CORRECTIVE ACTION: Submit a signed statement indicating that spill prevention briefings are conducted at least once a year.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS
Site ID:	126057
Site Name:	JIFFY LUBE #1876
Violation Date:	03-04-2019
Citation:	HSC 6.5 25201 - California Health and Safety Code, Chapter 6.5, Section(s) 25201
Violation Description:	Failure to obtain a permit or grant of interim status after generator has accumulated hazardous waste on-site for longer than 90 days.
Violation Notes:	OBSERVATION: (1) 15 gal drum of waste absorbent was labeled with an accumulation start date of 10/20/17. At time of inspection, there was no manifest documenting a more recent pickup. Thus it is assumed that the accumulation time onsite has exceeded 90 days. CORRECTIVE ACTION: Submit a hazardous waste manifest to this Division documenting a pickup up for the waste absorbent.
Violation Division:	San Bernardino County Fire Department

JIFFY LUBE #1876 (Continued) **S104905298**

Violation Program:	HW
Violation Source:	CERS
Site ID:	126057
Site Name:	JIFFY LUBE #1876
Violation Date:	03-04-2019
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
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:	OBSERVATION: The Hazardous Materials Inventory submitted to CERS on 2/23/19 is not consistent with what was observed at time of inspection. Items such as waste paper filers and waste mop water were not reported. 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:	126057
Site Name:	JIFFY LUBE #1876
Violation Date:	03-04-2019
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: (1) 55 gal drum of waste mop water was missing the accumulation start date. CORRECTIVE ACTION: Properly label all hazardous waste containers.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	126057
Site Name:	JIFFY LUBE #1876
Violation Date:	03-04-2019
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 comply with one or more of the following requirements: 1. Have record of inspections and integrity tests signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and integrity tests for at least three years. 3. Keep comparison records.
Violation Notes:	OBSERVATION: Per SPCC plan, inspections shall be conducted on a monthly basis and documented. At time of inspection, monthly inspection records were not made available for review. CORRECTIVE ACTION: Conduct monthly inspections of their petroleum tanks. Submit a monthly inspection to this Division.
Violation Division:	San Bernardino County Fire Department
Violation Program:	APSA
Violation Source:	CERS

JIFFY LUBE #1876 (Continued) **S104905298**

Site ID: 126057
Site Name: JIFFY LUBE #1876
Violation Date: 03-04-2019
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes: OBSERVATION: Documented training on the handling of hazardous waste was not available for review. CORRECTIVE ACTION: Submit a signed statement indicating that training has been conducted on the management of hazardous waste.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 126057
Site Name: JIFFY LUBE #1876
Violation Date: 03-21-2016
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 08/18/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a)) EPA ID number not active.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2019
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: 03-04-2019
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

JIFFY LUBE #1876 (Continued) **S104905298**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-04-2019
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: 03-21-2016
Violations Found: No
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: 03-21-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-21-2016
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

Enforcement Action:
Site ID: 126057
Site Name: JIFFY LUBE #1876
Site Address: 1640 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 03-21-2016
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

Coordinates:
Site ID: 126057
Facility Name: JIFFY LUBE #1876
Env Int Type Code: HWG
Program ID: 10040914
Coord Name: Not reported

JIFFY LUBE #1876 (Continued) **S104905298**

Ref Point Type Desc: Unknown
Latitude: 34.106510
Longitude: -117.681946

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Team Car Care West LLC
Entity Title: Not reported
Affiliation Address: 105 DECKER CT STE 900
Affiliation City: IRVING
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 75062
Affiliation Phone: (972) 812-7900

Affiliation Type Desc: Parent Corporation
Entity Name: Heartland Group
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: Lillian Nicholson
Entity Title: Not reported
Affiliation Address: 105 DECKER COURT, STE 900
Affiliation City: IRVING
Affiliation State: TX
Affiliation Country: Not reported
Affiliation Zip: 75062
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: Lillian Nicholson
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

JIFFY LUBE #1876 (Continued) **S104905298**

Entity Title:	Not reported
Affiliation Address:	105 DECKER COURT, STE 900
Affiliation City:	IRVING
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	75062
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Lillian Nicholson
Entity Title:	Compliance Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Team Car Care West LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(972) 812-7900

G55 **BENSON TOWN CLEANERS** **RCRA-SQG** **1000686168**
NE **1651 W FOOTHILL BLVD UNIT L** **FINDS** **CAD983634031**
1/8-1/4 **UPLAND, CA 91786** **ECHO**
0.127 mi. **DRYCLEANERS**
668 ft. **Site 2 of 6 in cluster G**

Relative: **Higher**
Actual: **1362 ft.**

RCRA-SQG:

Date Form Received by Agency:		1992-04-14 00:00:00.0
Handler Name:	BENSON TOWN CLEANERS	
Handler Address:		1651 W FOOTHILL BVLD STE L
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAD983634031
Contact Name:		SAMUEL JEONG
Contact Address:		1651 W FOOTHILL BVLD STE L
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		714-931-2969
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:		W FOOTHILL BVLD STE L

BENSON TOWN CLEANERS (Continued) **1000686168**

Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	SAMUEL JEONG
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
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 17:30:41.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No

BENSON TOWN CLEANERS (Continued) **1000686168**

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: SAMUEL JEONG
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1651 FOOTHILLS BLVD STE L
Owner/Operator City,State,Zip: UPLAND, CA 91786
Owner/Operator Telephone: 714-931-2969
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1992-04-14 00:00:00.0
Handler Name: BENSON TOWN CLEANERS
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: 110002874792

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.

BENSON TOWN CLEANERS (Continued) **1000686168**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000686168
Registry ID:	110002874792
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002874792
Name:	BENSON TOWN CLEANERS
Address:	1651 W FOOTHILL BLVD UNIT L
City,State,Zip:	UPLAND, CA 91786

DRYCLEANERS:

Name:	BENSON TOWN CLEANERS
Address:	1651 W FOOTHILL BLVD UNIT L
City,State,Zip:	UPLAND, CA 917860000
EPA Id:	CAL000191826
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	09/13/2000
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Owner Name:	JONG YOUN KIM
Owner Address:	1651 W FOOTHILL BLVD UNIT L
Owner Address 2:	Not reported
Owner Telephone:	9094351506
Contact Name:	JONG YOUN KIM/OWNER
Contact Address:	1651 W FOOTHILL BLVD UNIT L
Contact Address 2:	Not reported
Contact Telephone:	9099312969
Mailing Name:	Not reported
Mailing Address 1:	1651 W FOOTHILL BLVD UNIT L
Mailing Address 2:	Not reported
Mailing City:	UPLAND
Mailing State:	CA
Mailing Zip:	917860000
Owner Fax:	0
Region Code:	4

G56 **BENSON TOWN CLEANERS, JONG YOUN KIM** **DRYCLEANERS** **S121694542**
NE **1651 W FOOTHILL BLVD UNIT L** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.127 mi.
668 ft. **Site 3 of 6 in cluster G**

Relative:
Higher

Actual:
1362 ft.

DRYCLEAN SOUTH COAST:

Name:	BENSON TOWN CLEANERS, JONG YOUN KIM
Address:	1651 W FOOTHILL BLVD UNIT L
City,State,Zip:	UPLAND, CA 91786
Facility ID:	122652
Application Number:	367962
Permit Number:	F31922
Status:	A
Representative Name:	JONG YOUN KIM
Representative Telephone:	909 9312969

BENSON TOWN CLEANERS, JONG YOUN KIM (Continued) **S121694542**

Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	437.06201172
UTM North:	3774.0319824
Name:	BENSON TOWN CLEANERS, JONG YOUN KIM
Address:	1651 W FOOTHILL BLVD UNIT L
City,State,Zip:	UPLAND, CA 91786
Facility ID:	122652
Application Number:	409884
Permit Number:	F57423
Status:	A
Representative Name:	JONG YOUN KIM
Representative Telephone:	909 9312969
Permit Status:	INACTIVE
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	437.06201172
UTM North:	3774.0319824
Name:	BENSON TOWN CLEANERS, JONG YOUN KIM
Address:	1651 W FOOTHILL BLVD UNIT L
City,State,Zip:	UPLAND, CA 91786
Facility ID:	122652
Application Number:	467676
Permit Number:	F89741
Status:	A
Representative Name:	JONG YOUN KIM
Representative Telephone:	909 9312969
Permit Status:	ACTIVE
BCAT Number:	000603
BCAT Description:	DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	437.06201172
UTM North:	3774.0319824

G57 **BENSON TOWN CLEANERS** **RCRA NonGen / NLR** **1024797843**
NE **1651 W FOOTHILL BLVD UNIT L** **CAL000191826**
1/8-1/4 **UPLAND, CA 91786**
0.127 mi.
668 ft. **Site 4 of 6 in cluster G**

Relative: **Higher**

Actual: **1362 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2000-09-13 00:00:00.0
Handler Name:	BENSON TOWN CLEANERS	
Handler Address:		1651 W FOOTHILL BLVD UNIT L
Handler City,State,Zip:		UPLAND, CA 91786-0000
EPA ID:		CAL000191826
Contact Name:		JONG YOUN KIM/OWNER
Contact Address:		1651 W FOOTHILL BLVD UNIT L
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-931-2969

BENSON TOWN CLEANERS (Continued) **1024797843**

Contact Fax:	000-000-0000
Contact Email:	BUMSOO999@GMAIL.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:	1651 W FOOTHILL BLVD UNIT L
Mailing City,State,Zip:	UPLAND, CA 91786-0000
Owner Name:	JONG YOUN KIM
Owner Type:	Other
Operator Name:	JONG YOUN KIM/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

BENSON TOWN CLEANERS (Continued) **1024797843**

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 15:44:20.0
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:	JONG YOUN KIM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1651 W FOOTHILL BLVD UNIT L
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000
Owner/Operator Telephone:	909-435-1506
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JONG YOUN KIM/OWNER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1651 W FOOTHILL BLVD UNIT L
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-931-2969
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2000-09-13 00:00:00.0
Handler Name: BENSON TOWN CLEANERS	
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

BENSON TOWN CLEANERS (Continued) **1024797843**

List of NAICS Codes and Descriptions:
NAICS Code: 81232
NAICS Description: DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

G58 **R A PHOTO LAB** **San Bern. Co. Permit** **S106112382**
NE **1651 W FOOTHILL BLVD G** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.127 mi.
668 ft. **Site 5 of 6 in cluster G**

Relative:
Higher

Actual:
1362 ft.

San Bern. Co. Permit:
Name: R A PHOTO LAB
Address: 1651 W FOOTHILL BLVD G
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005515
Owner: TANIT THANTANARAT
Permit Number: PT0007917
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 07/31/2005

Name: R A PHOTO LAB
Address: 1651 W FOOTHILL BLVD G
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0005515
Owner: TANIT THANTANARAT
Permit Number: PT0007916
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 07/31/2005

G59 **BENSON TOWN CLEANER** **DRYCLEANERS** **S121700144**
NE **1651 W FOOTHILL BLVD UNIT L** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.127 mi.
668 ft. **Site 6 of 6 in cluster G**

Relative:
Higher

Actual:
1362 ft.

DRYCLEAN SOUTH COAST:
Name: BENSON TOWN CLEANER
Address: 1651 W FOOTHILL BLVD UNIT L
City,State,Zip: UPLAND, CA 91786
Facility ID: 88666
Application Number: 257155
Permit Number: D45106
Status: S
Representative Name: SAMUEL JEONG

BENSON TOWN CLEANER (Continued) **S121700144**

Representative Telephone:	714 9855390
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE
UTM East:	439.11999512
UTM North:	3774.3500977

H60 **DOLLAR CLEANERS** **San Bern. Co. Permit** **S106910806**
East **1630 W FOOTHILL BLVD D** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.130 mi.
686 ft. **Site 4 of 5 in cluster H**

Relative: **Higher**

Actual: **1346 ft.**

San Bern. Co. Permit:

Name:	DOLLAR CLEANERS
Address:	1630 W FOOTHILL BLVD D
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0002768
Owner:	BART MANUWANI
Permit Number:	PT0000351
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	11/30/2002

Name:	DOLLAR CLEANERS
Address:	1630 W FOOTHILL BLVD D
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0002768
Owner:	BART MANUWANI
Permit Number:	PT0000344
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	11/30/2002

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61 **ECI FUEL SYSTEMS** **RCRA NonGen / NLR** **1026475553**
South **1794 WEST 11TH STREET** **CAC003081310**
1/8-1/4 **UPLAND, CA 91786**
0.133 mi.
700 ft.

Relative: **Lower**

Actual: **1308 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2020-08-27 00:00:00.0
Handler Name:	ECI FUEL SYSTEMS	
Handler Address:		1794 WEST 11TH STREET
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAC003081310
Contact Name:		JONATHAN CORNEJO
Contact Address:		1794 WEST 11TH STREET
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		951-685-8602
Contact Fax:		Not reported
Contact Email:		JONATHANCORNEJO@ECIFUELSYSTEMS.COM

ECI FUEL SYSTEMS (Continued) **1026475553**

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:	1794 WEST 11TH STREET
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	GREG MITCHELL
Owner Type:	Other
Operator Name:	JONATHAN CORNEJO
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
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

ECI FUEL SYSTEMS (Continued) **1026475553**

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:	2020-09-04 15:31:19.0
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:	GREG MITCHELL
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1794 WEST 11TH STREET
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	951-685-8602
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JONATHAN CORNEJO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1794 WEST 11TH STREET
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	951-685-8602
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-08-27 00:00:00.0
Handler Name: ECI FUEL SYSTEMS	
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

ECI FUEL SYSTEMS (Continued) **1026475553**

List of NAICS Codes and Descriptions:
NAICS Code: 316110
NAICS Description: LEATHER AND HIDE TANNING AND FINISHING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I62 **ALONSO'S AUTO REPAIR INC.** **CERS HAZ WASTE** **S108240200**
SSW **1820 W 11TH ST UNIT F** **San Bern. Co. Permit** **N/A**
1/8-1/4 **UPLAND, CA 91786** **CERS**
0.138 mi.
727 ft. **Site 1 of 22 in cluster I**

Relative:
Lower

Actual:
1308 ft.

CERS HAZ WASTE:
Name: ALONSO'S AUTO REPAIR INC
Address: 1820 W 11TH ST STE E- F
City,State,Zip: UPLAND, CA 91786
Site ID: 91219
CERS ID: 10035184
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: ALONSO'S AUTO REPAIR INC.
Address: 1820 W 11TH ST UNIT F
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000860
Owner: LEONEL ALONSO ROLDAN
Permit Number: PT0000008
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 02/28/2021

Name: ALONSO'S AUTO REPAIR INC.
Address: 1820 W 11TH ST UNIT F
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000860
Owner: LEONEL ALONSO ROLDAN
Permit Number: PT0000009
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 02/28/2021

Name: CADILLAC GM SPECIALISTS
Address: 1820 W 11TH ST F
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0010641
Owner: SWANSON MARK
Permit Number: PT0018125
Permit Category: SPECIAL GENERATOR

ALONSO'S AUTO REPAIR INC. (Continued) **S108240200**

Facility Status: INACTIVE
Expiration Date: 10/31/2010

Name: CADILLAC GM SPECIALISTS
Address: 1820 W 11TH ST F
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0010641
Owner: SWANSON MARK
Permit Number: PT0018126
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 10/31/2009

CERS:
Name: ALONSO'S AUTO REPAIR INC
Address: 1820 W 11TH ST STE E- F
City,State,Zip: UPLAND, CA 91786
Site ID: 91219
CERS ID: 10035184
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 91219
Site Name: ALONSO'S AUTO REPAIR INC
Violation Date: 09-27-2017
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 10/24/2017. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Observed missing hazardous waste label on the (1) 55 gallon drum of used paper oil filters. Provide a complete hazardous waste label with accumulation start date.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 91219
Site Name: ALONSO'S AUTO REPAIR INC
Violation Date: 09-27-2017
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 09/27/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Accumulation start date observed missing on the (2) 55 gallon drums of waste antifreeze. Last pick-up of waste antifreeze by Action Waste was on 08/08/2017. Operator corrected the violation at the time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 91219
Site Name: ALONSO'S AUTO REPAIR INC
Violation Date: 09-27-2017
Citation: HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22

ALONSO'S AUTO REPAIR INC. (Continued) **S108240200**

Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 10/24/2017. Observed (1) 55 gallon drum of drained used oil filters missing the accumulation start date. Ensure that accumulation start date is written on label that reads "Drained Used Oil Filters" for the drum with the metal used oil filters only.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	91219
Site Name:	ALONSO'S AUTO REPAIR INC
Violation Date:	09-03-2014
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 09/03/2014. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) All hazardous waste labels shall have the accumulation start dates clearly marked. Observed a 55-gallon drum of used oil and two 55-gallon drums of waste coolant with no accumulation start date. -The drums were properly labeled during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	91219
Site Name:	ALONSO'S AUTO REPAIR INC
Violation Date:	09-03-2014
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 09/03/2014. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Any tank or container holding a hazardous waste must be properly labeled. Proper labeling includes the following information: the words G Hazardous Waste,G generator name and address, hazardous properties of the waste, composition & physical state of the waste, and the accumulation start date. Observed a 55-gallon drum of waste coolant missing a hazardous waste label. -The drum was properly labeled during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	91219
Site Name:	ALONSO'S AUTO REPAIR INC
Violation Date:	09-27-2017
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 10/27/2017. Emergency Response/Contingency Plan uploaded on CERS is missing the CUPA after hours phone number. Update the information on CERS and provide the phone number (909) 386-8425.
Violation Division:	San Bernardino County Fire Department

ALONSO'S AUTO REPAIR INC. (Continued) **S108240200**

Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	91219
Site Name:	ALONSO'S AUTO REPAIR INC
Violation Date:	09-27-2017
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 10/27/2017. Site map shall be uploaded on the CERS website to include the location of the hazardous waste and hazardous materials, cross streets and north direction.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	91219
Site Name:	ALONSO'S AUTO REPAIR INC
Violation Date:	09-27-2017
Citation:	HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes:	Returned to compliance on 10/27/2017. At time of inspection, observed the following missing inventory and quantities of hazardous waste and hazardous material: (2) 55 gallon drums of waste antifreeze (only 1 was reported in CERS) (3) 55 gallon drums of used oil (only 1 was reported in CERS) (3) 55 gallon drums of new oil (only 1 was reported in CERS) (1) 55 gallon drum of used oil paper filters (not reported) (1) 55 gallon drum of used drained metal oil filters (not reported) Update information on CERS whenever there is 100% increase of a quantity of a previously disclosed hazardous material/waste.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	91219
Site Name:	ALONSO'S AUTO REPAIR INC
Violation Date:	09-03-2014
Citation:	HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes:	Returned to compliance on 09/20/2014. Hazardous materials were observed on site during the inspection that are not listed in the current CERS inventory or are listed in lesser quantities.
Violation Division:	San Bernardino County Fire Department

ALONSO'S AUTO REPAIR INC. (Continued) **S108240200**

Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-03-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-ALONSOS AUTO
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-03-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-ALONSOS AUTO
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2017
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: 09-27-2017
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: 91219
Site Name: ALONSO'S AUTO REPAIR INC
Site Address: 1820 W 11TH ST STE E- F
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 09-03-2014
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: HMRRP
Enf Action Source: CERS

Site ID: 91219
Site Name: ALONSO'S AUTO REPAIR INC

ALONSO'S AUTO REPAIR INC. (Continued) **S108240200**

Site Address:	1820 W 11TH ST STE E- F
Site City:	UPLAND
Site Zip:	91786
Enf Action Date:	09-03-2014
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:	HW
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1820 w. 11th st. unit E- F
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Fredy Leonel Alonzo Roldan
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:	Fredy Leonel Alonzo Roldan
Entity Title:	Not reported
Affiliation Address:	1820 w. 11th. st. unit E-F
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 946-0543

Affiliation Type Desc:	Operator
Entity Name:	Fredy Leonel Alonzo Roldan
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) 268-9810

Affiliation Type Desc:	Property Owner
Entity Name:	Richard Hermann
Entity Title:	Not reported
Affiliation Address:	P.O. Box 15657
Affiliation City:	Long Beach

ALONSO'S AUTO REPAIR INC. (Continued) **S108240200**

Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90815
Affiliation Phone:	(562) 961-3470
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:	Environmental Contact
Entity Name:	Fredy Leonel Alonzo Roldan
Entity Title:	Not reported
Affiliation Address:	1820 w. 11th st. unit E-F
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Fredy Leonel AlonzoRoldan
Entity Title:	President
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:	Parent Corporation
Entity Name:	ALONSO'S AUTO REPAIR
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

I63 **HEATH ENTERPRISES** **San Bern. Co. Permit** **S106911399**
SSW **1820 W 11TH ST UNIT E** **HWTS** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.138 mi.
727 ft. **Site 2 of 22 in cluster I**

Relative: **Lower**

Actual: **1308 ft.**

San Bern. Co. Permit:

Name:	HEATH ENTERPRISES
Address:	1820 W 11TH ST UNIT E
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0009683

HEATH ENTERPRISES (Continued) **S106911399**

Owner: HEATH, BILL & JOY M.
Permit Number: PT0016499
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2006

Name: HEATH ENTERPRISES
Address: 1820 W 11TH ST UNIT E
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0009683
Owner: HEATH, BILL & JOY M.
Permit Number: PT0016500
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 05/31/2006

HWTS:
Name: HEATH ENTERPRISES
Address: 1820 W 11TH ST UNIT E
Address 2: Not reported
City,State,Zip: UPLAND, CA 91786
EPA ID: CAL000249051
Inactive Date: 06/30/2002
Create Date: 03/29/2002
Last Act Date: 12/28/2004
Mailing Name: Not reported
Mailing Address: 1820 W 11TH ST UNIT E
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 91786
Owner Name: JOY HEATH
Owner Address: 1820 W 11TH ST UNIT E
Owner Address 2: Not reported
Owner City,State,Zip: UPLAND, CA 91786
Contact Name: BILL HEATH
Contact Address: 1820 W 11TH ST UNIT E
Contact Address 2: Not reported
City,State,Zip: UPLAND, CA 91786

NAICS:
EPA ID: CAL000249051
Create Date: 2002-03-29 15:45:14.890
NAICS Code: 811111
NAICS Description: General Automotive Repair
Issued EPA ID Date: 2002-03-29 15:45:14.86000
Inactive Date: 2002-06-30 00:00:00
Facility Name: HEATH ENTERPRISES
Facility Address: 1820 W 11TH ST UNIT E
Facility Address 2: Not reported
Facility City: UPLAND
Facility County: Not reported
Facility State: CA
Facility Zip: 91786

I64 **ALONSO'S AUTO REPAIR** **RCRA NonGen / NLR** **1024830753**
SSW **1820 W 11TH ST STE F** **CAL000366200**
1/8-1/4 **UPLAND, CA 91786**
0.138 mi.
727 ft. **Site 3 of 22 in cluster I**

Relative: **Lower**

Actual: **1308 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2011-07-29 00:00:00.0
Handler Name:	ALONSO'S AUTO REPAIR	
Handler Address:		1820 W 11TH ST STE F
Handler City,State,Zip:		UPLAND, CA 91786-8429
EPA ID:		CAL000366200
Contact Name:		LEONEL ALONSO ROLDAN
Contact Address:		1820 W 11TH ST STE E-F
Contact City,State,Zip:		UPLAND, CA 91786-8429
Contact Telephone:		909-946-0543
Contact Fax:		909-949-0418
Contact Email:		ALONSOSAUTO@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:		1820 W 11TH ST STE E-F
Mailing City,State,Zip:		UPLAND, CA 91786-8429
Owner Name:		LEONEL ALONSO ROLDAN
Owner Type:		Other
Operator Name:		LEONEL ALONSO ROLDAN
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

ALONSO'S AUTO REPAIR (Continued) **1024830753**

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 16:59:26.0
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:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LEONEL ALONSO ROLDAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1820 W 11TH ST STE E-F
Owner/Operator City,State,Zip:	UPLAND, CA 91786-8429
Owner/Operator Telephone:	909-946-0543
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LEONEL ALONSO ROLDAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1820 W 11TH ST STE E-F
Owner/Operator City,State,Zip:	UPLAND, CA 91786-8429
Owner/Operator Telephone:	909-949-4483
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

ALONSO'S AUTO REPAIR (Continued) **1024830753**

Historic Generators:
Receive Date: 2011-07-29 00:00:00.0
Handler Name: ALONSO'S AUTO REPAIR
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

I65 **ALL TRANSMISSION** **CERS HAZ WASTE** **S106825210**
SSW **1820 W 11TH ST UNIT D** **EMI** **N/A**
1/8-1/4 **UPLAND, CA 91786** **San Bern. Co. Permit**
0.138 mi. **CERS**
727 ft. **Site 4 of 22 in cluster I**

Relative:
Lower

Actual:
1308 ft.

CERS HAZ WASTE:
Name: ALL TRANSMISSION
Address: 1820 W 11TH ST UNIT D
City,State,Zip: UPLAND, CA 91786
Site ID: 90981
CERS ID: 10050241
CERS Description: Hazardous Waste Generator

EMI:
Name: AA QUALITY AUTO BODY
Address: 1820 W 11TH ST UNIT G
City,State,Zip: UPLAND, CA 91786
Year: 1987
County Code: 36
Air Basin: SC
Facility ID: 51397
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

ALL TRANSMISSION (Continued) **S106825210**

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: AA QUALITY AUTO BODY
Address: 1820 W 11TH ST UNIT G
City,State,Zip: UPLAND, CA 91786
Year: 1990
County Code: 36
Air Basin: SC
Facility ID: 51397
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
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

San Bern. Co. Permit:
Name: ALL TRANSMISSION
Address: 1820 W 11TH ST UNIT D
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0009684
Owner: BANIHASHEMI, SCOTT
Permit Number: PT0016502
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 05/31/2021

Name: ALL TRANSMISSION
Address: 1820 W 11TH ST UNIT D
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0009684
Owner: BANIHASHEMI, SCOTT
Permit Number: PT0016501
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 05/31/2021

CERS:
Name: ALL TRANSMISSION
Address: 1820 W 11TH ST UNIT D
City,State,Zip: UPLAND, CA 91786
Site ID: 90981
CERS ID: 10050241
CERS Description: Chemical Storage Facilities

ALL TRANSMISSION (Continued) **S106825210**

Violations:

Site ID:	90981
Site Name:	ALL TRANSMISSION
Violation Date:	01-14-2019
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 and accurate on or before the annual due date.
Violation Notes:	OBSERVATION: At time of inspection, the last complete Business Plan submittal to the California Environmental Reporting System (CERS) was 9/20/16
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	90981
Site Name:	ALL TRANSMISSION
Violation Date:	01-14-2019
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:	OBSERVATION: At time of inspection, the EPA ID number for this facility was inactive. CORRECTIVE ACTION: Obtain a permanent EPA ID number by submitting form 1358 to DTSC. Form 1358 is attached to this inspection report. Submit a signed statement indicating that a valid EPA ID number has been obtained.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	90981
Site Name:	ALL TRANSMISSION
Violation Date:	06-22-2016
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 09/20/2016. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) The 180 day accumulation time limit has been exceeded. The last waste pick up was in April 2015. Have the waste removed using a licensed waste hauler and provide a copy of the manifest.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	90981
Site Name:	ALL TRANSMISSION
Violation Date:	06-22-2016
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 09/20/2016. The facility has not established

ALL TRANSMISSION (Continued) **S106825210**

a business plan. This is a repeat violation.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 90981
Site Name: ALL TRANSMISSION
Violation Date: 06-22-2016
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 09/20/2016. Failure to establish a Contingency Plan (CCR 66265.51(a)) The facility has not established a business plan. This is a repeat violation.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 90981
Site Name: ALL TRANSMISSION
Violation Date: 06-22-2016
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: Returned to compliance on 09/20/2016. The facility has not established a business plan. This is a repeat violation.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
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: 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: 06-22-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: All Trans insection
Eval Division: San Bernardino County Fire Department

ALL TRANSMISSION (Continued) **S106825210**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-22-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: All Trans inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 90981
Site Name: ALL TRANSMISSION
Site Address: 1820 W 11TH ST UNIT D
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 06-22-2016
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: 90981
Site Name: ALL TRANSMISSION
Site Address: 1820 W 11TH ST UNIT D
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 06-22-2016
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

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: SCOTT BANIHASHEMI
Entity Title: Not reported
Affiliation Address: 1820 W 11TH ST UNIT D
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: BANIHASHEMI, SCOTT
Entity Title: Not reported
Affiliation Address: 1820 W 11TH ST, UNIT D
Affiliation City: UPLAND
Affiliation State: CA

ALL TRANSMISSION (Continued) **S106825210**

Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 982-9324
Affiliation Type Desc:	Parent Corporation
Entity Name:	ALL TRANSMISSION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San 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:	1820 W 11TH ST., UNIT D
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	SCOTT BANIHASHEMI
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:	Operator
Entity Name:	SCOTT BANIHASHEMI
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) 982-9324

I66 **UPTOWN AUTO CRAFT,LLC** **CERS HAZ WASTE** **S113038861**
SSW **1824 W 11TH ST STE A** **HAZNET** **N/A**
1/8-1/4 **UPLAND, CA 91786** **San Bern. Co. Permit**
0.139 mi. **CERS**
732 ft. **Site 5 of 22 in cluster I** **HWTS**

Relative:
Lower

Actual:
1308 ft.

CERS HAZ WASTE:
Name: UPTOWN AUTO CRAFT,LLC
Address: 1824 W 11TH ST STE A
City,State,Zip: UPLAND, CA 91786
Site ID: 165002
CERS ID: 10046056
CERS Description: Hazardous Waste Generator

HAZNET:
Name: UPTOWN AUTO CRAFT
Address: 1824 W 11TH ST #A
Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000
Contact: KEVIN HOLME
Telephone: 9099822555
Mailing Name: Not reported
Mailing Address: 1824 W 11TH ST

Year: 1993
Gepaid: CAL000043122
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: R01 - Recycler
Tons: 0.072

Year: 1992
Gepaid: CAL000043122
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: R01 - Recycler
Tons: 0.3752

Year: 1991
Gepaid: CAL000043122
TSD EPA ID: CAD008252405
CA Waste Code: 212 - Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)
Disposal Method: R01 - Recycler
Tons: 0.6254

Year: 1991
Gepaid: CAL000043122
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: R01 - Recycler
Tons: 0.2919

Additional Info:
Year: 1993
Gen EPA ID: CAL000043122

Shipment Date: 19930324

UPTOWN AUTO CRAFT,LLC (Continued) **S113038861**

Creation Date:	9/6/1995 0:00:00
Receipt Date:	19930324
Manifest ID:	92040504
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:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.072
Waste Quantity:	20
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

San Bern. Co. Permit:

Name:	UPTOWN AUTO CRAFT,LLC
Address:	1824 W 11TH ST STE A
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006972
Owner:	PICENO, RICKY
Permit Number:	PT0019543
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	09/30/2020

Name:	UPTOWN AUTO CRAFT,LLC
Address:	1824 W 11TH ST STE A
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006972
Owner:	PICENO, RICKY
Permit Number:	PT0019542
Permit Category:	HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status:	FEE EXEMPT
Expiration Date:	09/30/2012

Name:	UPTOWN AUTO CRAFT,LLC
Address:	1824 W 11TH ST STE A
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006972
Owner:	PICENO, RICKY
Permit Number:	PT0004734
Permit Category:	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	09/30/2008

UPTOWN AUTO CRAFT,LLC (Continued) **S113038861**

CERS:
Name: UPTOWN AUTO CRAFT,LLC
Address: 1824 W 11TH ST STE A
City,State,Zip: UPLAND, CA 91786
Site ID: 165002
CERS ID: 10046056
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 165002
Site Name: UPTOWN AUTO CRAFT,LLC
Violation Date: 02-23-2015
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 04/03/2015.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 165002
Site Name: UPTOWN AUTO CRAFT,LLC
Violation Date: 02-23-2015
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 06/12/2015. Hazardous waste accumulation time exceeded (CCR 66262.34(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-23-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UPTOWN INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-27-2018
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

Enforcement Action:
Site ID: 165002
Site Name: UPTOWN AUTO CRAFT,LLC
Site Address: 1824 W 11TH ST STE A

UPTOWN AUTO CRAFT,LLC (Continued) **S113038861**

Site City:	UPLAND
Site Zip:	91786
Enf Action Date:	02-23-2015
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:	Document Preparer
Entity Name:	LISA PICENO
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	San 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:	1824 WEST 11TH STREET, STE. A
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	PICENO, RICKY
Entity Title:	Not reported
Affiliation Address:	1824 W 11TH ST
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786-9178
Affiliation Phone:	(909) 982-2555

Affiliation Type Desc:	Operator
Entity Name:	LISA PICENO
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

UPTOWN AUTO CRAFT,LLC (Continued) **S113038861**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 982-2555

Affiliation Type Desc: Parent Corporation
Entity Name: UPTOWN AUTO CRAFT
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: RICKY PICENO
Entity Title: Not reported
Affiliation Address: 1824 W 11TH ST, UNIT A
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: LISA PICENO
Entity Title: OWNER/MANAGER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: UPTOWN AUTO CRAFT
Address: 1824 W 11TH ST #A
Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000
EPA ID: CAL000043122
Inactive Date: 06/30/2008
Create Date: 01/08/1991
Last Act Date: 04/23/2009
Mailing Name: Not reported
Mailing Address: 1824 W 11TH ST
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 917860000
Owner Name: HOLME KEVIN
Owner Address: 1824 W 11TH ST #A
Owner Address 2: Not reported
Owner City,State,Zip: UPLAND, CA 917860000
Contact Name: KEVIN HOLME
Contact Address: 1824 W 11TH ST #A
Contact Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000

I67
SSW
1/8-1/4
0.139 mi.
732 ft.

UPTOWN AUTO CRAFT LLC
1824 W 11TH ST STE A
UPLAND, CA 91786

Site 6 of 22 in cluster I

RCRA NonGen / NLR | **1024818006** | **CAL000323720**

Relative:
Lower

Actual:
1308 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2007-08-16 00:00:00.0
Handler Name:	UPTOWN AUTO CRAFT LLC	
Handler Address:		1824 W 11TH ST STE A
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAL000323720
Contact Name:		RICK PICENO
Contact Address:		1824 W 11TH ST STE A
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-982-2555
Contact Fax:		909-985-6899
Contact Email:		PICENO.LADY@YAHOO.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:		1824 W 11TH ST STE A
Mailing City,State,Zip:		UPLAND, CA 91786-8425
Owner Name:		UPTOWN AUTO CRAFT LLC
Owner Type:		Other
Operator Name:		RICK PICENO
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

UPTOWN AUTO CRAFT LLC (Continued) **1024818006**

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 20:29:35.0
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:	RICK PICENO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1824 W 11TH ST STE A
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-982-2555
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	UPTOWN AUTO CRAFT LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1824 W 11TH ST STE A
Owner/Operator City,State,Zip:	UPLAND, CA 91786-8425
Owner/Operator Telephone:	909-982-2555
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

UPTOWN AUTO CRAFT LLC (Continued) **1024818006**

Historic Generators:
Receive Date: 2007-08-16 00:00:00.0
Handler Name: UPTOWN AUTO CRAFT LLC
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

I68 **SUPERIOR SUBARU REPAIR** **RCRA NonGen / NLR** **1025865627**
SSW **1828 W 11TH ST STE F** **CAL000021908**
1/8-1/4 **UPLAND, CA 91786**
0.142 mi.
751 ft. **Site 7 of 22 in cluster I**

Relative: **Lower**
Actual: **1310 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 1989-11-14 00:00:00.0
Handler Name: SUPERIOR SUBARU REPAIR
Handler Address: 1828 W 11TH ST STE F
Handler City,State,Zip: UPLAND, CA 91786-8419
EPA ID: CAL000021908
Contact Name: WILLIAM NEWTON
Contact Address: 1828 W 11TH ST STE F
Contact City,State,Zip: UPLAND, CA 91786
Contact Telephone: 909-946-0662
Contact Fax: 909-946-7662
Contact Email: BILLSSR@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: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 1828 W 11TH ST STE F
Mailing City,State,Zip: UPLAND, CA 91786-8419
Owner Name: WILLIAM NEWTON

SUPERIOR SUBARU REPAIR (Continued) **1025865627**

Owner Type:	Other
Operator Name:	WILLIAM NEWTON
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
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:	2019-09-27 16:23:46.0
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

SUPERIOR SUBARU REPAIR (Continued) **1025865627**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	WILLIAM NEWTON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1828 W 11TH ST STE F
Owner/Operator City,State,Zip:	UPLAND, CA 91786-8419
Owner/Operator Telephone:	909-946-0662
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	WILLIAM NEWTON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1828 W 11TH ST STE F
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-946-0662
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1989-11-14 00:00:00.0
Handler Name:	SUPERIOR SUBARU REPAIR
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

I69 **GREEN TECH COLLISION CENTER** **San Bern. Co. Permit** **S108985839**
SSW **1828 W 11TH ST UNIT C** **CERS** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.142 mi.
751 ft. **Site 8 of 22 in cluster I**

Relative:
Lower

Actual:
1310 ft.

San Bern. Co. Permit:

Name:	GREEN TECH COLLISION CENTER
Address:	1828 W 11TH ST UNIT C
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0014677
Owner:	GODINA, RAYMOND
Permit Number:	PT0025596
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	INACTIVE
Expiration Date:	08/31/2020

Name:	GREEN TECH COLLISION CENTER
Address:	1828 W 11TH ST UNIT C
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0014677
Owner:	GODINA, RAYMOND
Permit Number:	PT0037114
Permit Category:	HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status:	INACTIVE
Expiration Date:	08/31/2017

Name:	MORAN'S COLLISION CENTER
Address:	1828 W 11TH ST UNIT C
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0009685
Owner:	MORAN, HECTOR
Permit Number:	PT0019574
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status:	INACTIVE
Expiration Date:	12/31/2012

Name:	MORAN'S COLLISION CENTER
Address:	1828 W 11TH ST UNIT C
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0009685
Owner:	MORAN, HECTOR
Permit Number:	PT0019573
Permit Category:	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	12/31/2012

CERS:

Name:	GREEN TECH COLLISION CENTER
Address:	1828 W 11TH ST UNIT C
City,State,Zip:	UPLAND, CA 91786
Site ID:	566395
CERS ID:	10313557
CERS Description:	Chemical Storage Facilities

GREEN TECH COLLISION CENTER (Continued) **S108985839**

Violations:

Site ID:	566395
Site Name:	GREEN TECH COLLISION CENTER
Violation Date:	12-19-2019
Citation:	40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description:	Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.
Violation Notes:	Not reported
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	566395
Site Name:	GREEN TECH COLLISION CENTER
Violation Date:	03-31-2015
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 04/23/2015. Failure to obtain an EPA ID Number (CCR 66262.12(a)) The EPA Id was found to be inactive. Submit the provided paperwork to the DTSC to activate your number. Submit a signed certificate of compliance to indicate the correction has been made.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	566395
Site Name:	GREEN TECH COLLISION CENTER
Violation Date:	03-31-2015
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 04/23/2015. Failure to establish a Contingency Plan (CCR 66265.51(a)) A business plan has not been submitted. Submit a plan using the CERS system. Guidance documents were provided.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	566395
Site Name:	GREEN TECH COLLISION CENTER
Violation Date:	12-19-2019
Citation:	Un-Specified
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Not reported
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	566395
Site Name:	GREEN TECH COLLISION CENTER
Violation Date:	12-19-2019

GREEN TECH COLLISION CENTER (Continued) **S108985839**

Citation:	40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description:	Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.
Violation Notes:	Not reported
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	566395
Site Name:	GREEN TECH COLLISION CENTER
Violation Date:	12-19-2019
Citation:	HSC 6.5 25189.5(a),25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25189.5(a),25201(a)
Violation Description:	Failure to dispose of hazardous waste at a facility which has a permit from DTSC or disposing of hazardous waste at any point which is not authorized according to HSC 6.5.
Violation Notes:	Not reported
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	566395
Site Name:	GREEN TECH COLLISION CENTER
Violation Date:	12-19-2019
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:	Not reported
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	566395
Site Name:	GREEN TECH COLLISION CENTER
Violation Date:	12-19-2019
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:	Not reported
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	566395
Site Name:	GREEN TECH COLLISION CENTER
Violation Date:	03-31-2015
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95,

GREEN TECH COLLISION CENTER (Continued) **S108985839**

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 04/23/2015. A business plan has not been submitted. Submit a plan using the CERS system. Guidance documents were provided.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 566395
Site Name: GREEN TECH COLLISION CENTER
Violation Date: 12-19-2019
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Not reported
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 566395
Site Name: GREEN TECH COLLISION CENTER
Violation Date: 03-31-2015
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 04/23/2015. A business plan has not been submitted. Submit a plan using the CERS system. Guidance documents were provided.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-27-2018
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: 03-31-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Green Tech inspection
Eval Division: San Bernardino County Fire Department

GREEN TECH COLLISION CENTER (Continued) **S108985839**

Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-01-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: issued NOV for open violations from 12/2019 report
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-19-2019
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: 12-19-2019
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

Enforcement Action:
Site ID: 566395
Site Name: GREEN TECH COLLISION CENTER
Site Address: 1828 W 11TH ST UNIT C
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 03-31-2015
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: Document Preparer
Entity Name: Green Tech Collision Center
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

GREEN TECH COLLISION CENTER (Continued) **S108985839**

Entity Name:	Mike Riley
Entity Title:	Not reported
Affiliation Address:	1800 W 11 st Suite C
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 981-6110
Affiliation Type Desc:	Legal Owner
Entity Name:	Ramon A Godina
Entity Title:	Not reported
Affiliation Address:	1800 W 11st Suite A
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 543-7945
Affiliation Type Desc:	Parent Corporation
Entity Name:	GREEN TECH COLLISION CENTER
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:	1800 W 11st Suite A
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Green Tech Collision Center
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:	Operator
Entity Name:	Ramon A Godina
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

GREEN TECH COLLISION CENTER (Continued) **S108985839**

Affiliation Phone:	(909) 543-7945
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:	Environmental Contact
Entity Name:	Ramon Godina
Entity Title:	Not reported
Affiliation Address:	1800 W 11st Suite A
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

I70 **INLAND ROD & RESTORATION** **RCRA NonGen / NLR** **1026171112**
SSW **1828 W 11TH ST STE H** **CAL000454682**
1/8-1/4 **UPLAND, CA 91786**
0.142 mi.
751 ft. **Site 9 of 22 in cluster I**

Relative: **Lower**

Actual: **1310 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-05-20 00:00:00.0
Handler Name:	INLAND ROD & RESTORATION
Handler Address:	1828 W 11TH ST STE H
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000454682
Contact Name:	LEON HUERTA
Contact Address:	1828 W 11TH ST STE H
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	626-375-7157
Contact Fax:	Not reported
Contact Email:	INLANDROD.RESTO@YAHOO.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:	1828 W 11TH ST STE H
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	LEON HUERTA
Owner Type:	Other
Operator Name:	LEON HUERTA
Operator Type:	Other
Short-Term Generator Activity:	No

INLAND ROD & RESTORATION (Continued) **1026171112**

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:	2020-06-08 20:37:00.0
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

INLAND ROD & RESTORATION (Continued) **1026171112**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LEON HUERTA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7741 ASPEN AVE
Owner/Operator City,State,Zip:	FONTANA, CA 92336
Owner/Operator Telephone:	626-375-7157
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LEON HUERTA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1828 W 11TH ST STE H
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	626-375-7157
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2020-05-20 00:00:00.0
Handler Name:	INLAND ROD & RESTORATION
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

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

I71 **SUPERIOR SUBARU REPAIR** **CERS HAZ WASTE** **S104763932**
SSW **1828 W 11TH ST UNIT F** **San Bern. Co. Permit** **N/A**
1/8-1/4 **UPLAND, CA 91786** **CERS**
0.142 mi. **HWTS**
751 ft. **Site 10 of 22 in cluster I**

Relative:
Lower

Actual:
1310 ft.

CERS HAZ WASTE:

Name:	SUPERIOR SUBARU REPAIR
Address:	1828 W 11TH ST F
City,State,Zip:	UPLAND, CA 91786
Site ID:	158350
CERS ID:	10045354
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	SUPERIOR SUBARU REPAIR
Address:	1828 W 11TH ST UNIT F
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006550
Owner:	BILL NEWTON
Permit Number:	PT0009687
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	04/30/2021

Name:	SUPERIOR SUBARU REPAIR
Address:	1828 W 11TH ST UNIT F
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006550
Owner:	BILL NEWTON
Permit Number:	PT0009686
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	04/30/2021

Name:	ARROYO AUTOMOTIVE
Address:	1828 W 11TH ST A
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0001136
Owner:	ARROYO, FERNANDO
Permit Number:	PT0007189
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	09/30/2013

Name:	ARROYO AUTOMOTIVE
Address:	1828 W 11TH ST A
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0001136
Owner:	ARROYO, FERNANDO
Permit Number:	PT0007188
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	09/30/2013

SUPERIOR SUBARU REPAIR (Continued) **S104763932**

CERS:
Name: SUPERIOR SUBARU REPAIR
Address: 1828 W 11TH ST F
City,State,Zip: UPLAND, CA 91786
Site ID: 158350
CERS ID: 10045354
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 158350
Site Name: SUPERIOR SUBARU REPAIR
Violation Date: 03-27-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/30/2017. 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: 158350
Site Name: SUPERIOR SUBARU REPAIR
Violation Date: 09-06-2019
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 10/23/2019. OBSERVATION: At time of inspection, the EPA ID number for this facility was inactive. CORRECTIVE ACTION: Obtain a permanent EPA ID number by submitting form 1358 to DTSC. Submit a signed statement indicating that a valid EPA ID number has been obtained.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 158350
Site Name: SUPERIOR SUBARU REPAIR
Violation Date: 03-27-2017
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 03/28/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: NO VIOLATIONS OBSERVED FOR HANDLER INSPECTION.

SUPERIOR SUBARU REPAIR (Continued) **S104763932**

Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-27-2017
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: 04-10-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-SUPERIOR SUBARU
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-10-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-SUPERIOR SUBARU
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-06-2019
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: 09-06-2019
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

Enforcement Action:
Site ID: 158350
Site Name: SUPERIOR SUBARU REPAIR
Site Address: 1828 W 11TH ST F
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 03-27-2017
Enf Action Type: Notice of Violation (Unified Program)

SUPERIOR SUBARU REPAIR (Continued) **S104763932**

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: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1828 W 11TH STREET, UNIT 'F'
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Bill Newton
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) 593-1906

Affiliation Type Desc: Environmental Contact
Entity Name: WILLIAM NEWTON
Entity Title: Not reported
Affiliation Address: 1828 W 11TH ST #F
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: SUPERIOR SUBARU REPAIR
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San 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

SUPERIOR SUBARU REPAIR (Continued) **S104763932**

Affiliation Type Desc:	Legal Owner
Entity Name:	Bill Newton
Entity Title:	Not reported
Affiliation Address:	1828 WEST 11TH STREET UNIT 'F'
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786-9178
Affiliation Phone:	(909) 593-1906

HWTS:

Name:	INLAND ROD & RESTORATION
Address:	1828 W 11TH ST STE H
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000454682
Inactive Date:	Not reported
Create Date:	05/20/2020
Last Act Date:	09/15/2020
Mailing Name:	Not reported
Mailing Address:	1828 W 11TH ST STE H
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	LEON HUERTA
Owner Address:	7741 ASPEN AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	FONTANA, CA 92336
Contact Name:	LEON HUERTA
Contact Address:	1828 W 11TH ST STE H
Contact Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786

NAICS:

EPA ID:	CAL000454682
Create Date:	2020-05-20 15:58:04.823
NAICS Code:	811121
NAICS Description:	Automotive Body, Paint, and Interior Repair and Maintenance
Issued EPA ID Date:	2020-05-20 15:58:04.82300
Inactive Date:	Not reported
Facility Name:	INLAND ROD & RESTORATION
Facility Address:	1828 W 11TH ST STE H
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91786

I72 **LLOYD MOSHER ENTERPRISES** **San Bern. Co. Permit** **S102042581**
SSW **1830 W 11TH ST UNIT C** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.143 mi.
755 ft. **Site 11 of 22 in cluster I**

Relative: **Lower**

Actual: **1310 ft.**

San Bern. Co. Permit:

Name:	LLOYD MOSHER ENTERPRISES
Address:	1830 W 11TH ST UNIT C
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0004452
Owner:	LLOYD MOSHER ENTERPRISES
Permit Number:	PT0020475
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	INACTIVE
Expiration Date:	08/31/2017

Name:	LLOYD MOSHER ENTERPRISES
Address:	1830 W 11TH ST UNIT C
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0004452
Owner:	LLOYD MOSHER ENTERPRISES
Permit Number:	PT0002974
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	08/31/2014

Name:	LLOYD MOSHER ENTERPRISES
Address:	1830 W 11TH ST UNIT C
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0004452
Owner:	LLOYD MOSHER ENTERPRISES
Permit Number:	PT0002975
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2008

I73 **AL & LEES AUTO CARE CTR** **CERS HAZ WASTE** **S104771551**
SSW **1830 WEST 11TH ST #A** **HAZNET** **N/A**
1/8-1/4 **UPLAND, CA 91786** **San Bern. Co. Permit**
0.143 mi. **CERS**
755 ft. **Site 12 of 22 in cluster I** **HWTS**

Relative: **Lower**

Actual: **1310 ft.**

CERS HAZ WASTE:

Name:	AL & LEE'S AUTO CARE CTR
Address:	1830 W 11TH ST A&B
City,State,Zip:	UPLAND, CA 91786
Site ID:	3798
CERS ID:	10035067
CERS Description:	Hazardous Waste Generator

HAZNET:

Name:	AL & LEES AUTO CARE CTR
Address:	1830 WEST 11TH ST #A
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000

AL & LEES AUTO CARE CTR (Continued) **S104771551**

Contact: THERESA PERLMAN
Telephone: 9099465887
Mailing Name: Not reported
Mailing Address: 1830 W 11TH ST # A

Year: 2017
Gepaid: CAL000144838
TSD EPA ID: AZR000501510
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05

Additional Info:
Year: 2017
Gen EPA ID: CAL000144838

Shipment Date: 20171010
Creation Date: 7/10/2018 18:30:28
Receipt Date: 20171011
Manifest ID: 016811475JJK
Trans EPA ID: CAL000280876
Trans Name: ACTION WASTE OIL SERVICES
Trans 2 EPA ID: CAD980585293
Trans 2 Name: INDUSTRIAL WASTE UTILIZATION
TSDF EPA ID: AZR000501510
Trans Name: AA SYDCOL LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
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

San Bern. Co. Permit:
Name: UNDERGROUND AUTOMOTIVE
Address: 1830 W 11TH ST #H
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006888
Owner: JEFF LEWIS
Permit Number: PT0019408
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 09/30/2013

Name: UNDERGROUND AUTOMOTIVE

AL & LEES AUTO CARE CTR (Continued) **S104771551**

Address: 1830 W 11TH ST #H
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006888
Owner: JEFF LEWIS
Permit Number: PT0006582
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2013

CERS:
Name: AL & LEE'S AUTO CARE CTR
Address: 1830 W 11TH ST A&B
City,State,Zip: UPLAND, CA 91786
Site ID: 3798
CERS ID: 10035067
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 3798
Site Name: AL & LEE'S AUTO CARE CTR
Violation Date: 07-20-2017
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 07/20/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 3798
Site Name: AL & LEE'S AUTO CARE CTR
Violation Date: 07-16-2015
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: 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: 3798
Site Name: AL & LEE'S AUTO CARE CTR
Violation Date: 07-20-2017
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/31/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 3798
Site Name: AL & LEE'S AUTO CARE CTR

AL & LEES AUTO CARE CTR (Continued) **S104771551**

Violation Date: 07-16-2015
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 07/31/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 3798
Site Name: AL & LEE'S AUTO CARE CTR
Violation Date: 07-20-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Failure to obtain an EPA ID Number (CCR 66262.12(a)) Failure to obtain/maintain an active EPA ID Number. A facility or individual shall not treat, store, dispose of, transport, or offer for transportation a Hazardous Waste unless an EPA ID Number has been obtained. (CCR 66262.12(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 3798
Site Name: AL & LEE'S AUTO CARE CTR
Violation Date: 07-20-2017
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 07/20/2017. 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

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: AL LEE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: AL LEE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

AL & LEES AUTO CARE CTR (Continued) **S104771551**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION, FILE PREPARATION/REVIEW.
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION, FILE PREPARATION/REVIEW.
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	3798
Site Name:	AL & LEE'S AUTO CARE CTR
Site Address:	1830 W 11TH ST A&B
Site City:	UPLAND
Site Zip:	91786
Enf Action Date:	07-16-2015
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:	3798
Site Name:	AL & LEE'S AUTO CARE CTR
Site Address:	1830 W 11TH ST A&B
Site City:	UPLAND
Site Zip:	91786
Enf Action Date:	07-16-2015
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:	Environmental Contact
Entity Name:	LEE J PERLMAN
Entity Title:	Not reported
Affiliation Address:	1830 W 11TH ST, UNIT A & B
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

AL & LEES AUTO CARE CTR (Continued) **S104771551**

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1830 WEST 11TH STREET, UNIT A&B
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	PERLMAN, LEE J
Entity Title:	Not reported
Affiliation Address:	2438 OAK HILL DR
Affiliation City:	ONTARIO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91761
Affiliation Phone:	(909) 947-0242

Affiliation Type Desc:	Operator
Entity Name:	LEE J PERLMAN
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:	(951) 316-4034

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:	Parent Corporation
Entity Name:	AL & LEE'S AUTO CARE CTR
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

HWTS:

Name:	AL & LEES AUTO CARE CTR
Address:	1830 WEST 11TH ST #A
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAL000144838

AL & LEES AUTO CARE CTR (Continued) **S104771551**

Inactive Date:	Not reported
Create Date:	01/13/1997
Last Act Date:	07/23/2020
Mailing Name:	LEE PERLMAN
Mailing Address:	1830 W 11TH ST #A
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917863505
Owner Name:	LEE PERLMAN
Owner Address:	2438 OAK HILLS DR
Owner Address 2:	Not reported
Owner City,State,Zip:	ONTARIO, CA 91761
Contact Name:	LEE PERLMAN
Contact Address:	1830 W 11TH ST # A
Contact Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786

I74 **AL & LEES AUTO CARE CTR** **RCRA NonGen / NLR** **1026489438**
SSW **1830 WEST 11TH ST #A** **CAL000144838**
1/8-1/4 **UPLAND, CA 91786**
0.143 mi.
755 ft. **Site 13 of 22 in cluster I**

Relative: **Lower**
Actual: **1310 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		1997-01-13 00:00:00.0
Handler Name:	AL & LEES AUTO CARE CTR	
Handler Address:		1830 WEST 11TH ST #A
Handler City,State,Zip:		UPLAND, CA 91786-0000
EPA ID:		CAL000144838
Contact Name:		LEE PERLMAN
Contact Address:		1830 W 11TH ST # A
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-946-5887
Contact Fax:		909-946-2778
Contact Email:		IRENE@ALANDLEES.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:		1830 W 11TH ST #A
Mailing City,State,Zip:		UPLAND, CA 91786-3505
Owner Name:		LEE PERLMAN
Owner Type:		Other
Operator Name:		LEE PERLMAN
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

AL & LEES AUTO CARE CTR (Continued) **1026489438**

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:	2020-08-14 15:10:34.0
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:	LEE PERLMAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1830 W 11TH ST # A
Owner/Operator City,State,Zip:	UPLAND, CA 91786

AL & LEES AUTO CARE CTR (Continued) **1026489438**

Owner/Operator Telephone: 909-946-5887
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: LEE PERLMAN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2438 OAK HILLS DR
Owner/Operator City,State,Zip: ONTARIO, CA 91761
Owner/Operator Telephone: 951-316-4034
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1997-01-13 00:00:00.0
Handler Name: AL & LEES AUTO CARE CTR
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: 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

I75 **WEST WORKS** **RCRA NonGen / NLR** **1024793336**
SSW **1838 W 11TH ST STE D** **CAL000137598**
1/8-1/4 **UPLAND, CA 91786**
0.146 mi.
772 ft. **Site 14 of 22 in cluster I**

Relative: RCRA NonGen / NLR:
Lower
Date Form Received by Agency: 1994-12-08 00:00:00.0
Actual: Handler Name: WEST WORKS
1310 ft. Handler Address: 1838 W 11TH ST STE D
Handler City,State,Zip: UPLAND, CA 91786-8417
EPA ID: CAL000137598
Contact Name: STEVE WEST
Contact Address: 1838 W 11TH ST STE D

WEST WORKS (Continued) **1024793336**

Contact City,State,Zip:	UPLAND, CA 91786-8417
Contact Telephone:	909-920-3046
Contact Fax:	909-985-9949
Contact Email:	WESTWORKSAUTOBODY@YAHOO.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:	1838 W 11TH ST STE D
Mailing City,State,Zip:	UPLAND, CA 91786-0000
Owner Name:	STEVE WEST
Owner Type:	Other
Operator Name:	STEVE WEST
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

WEST WORKS (Continued) **1024793336**

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 15:43:02.0
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:	STEVE WEST
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1838 W 11TH ST STE D
Owner/Operator City,State,Zip:	UPLAND, CA 91786-8417
Owner/Operator Telephone:	909-920-3046
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	STEVE WEST
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1838 W 11TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786-3578
Owner/Operator Telephone:	909-920-3046
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1994-12-08 00:00:00.0
Handler Name: WEST WORKS	
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

WEST WORKS (Continued) **1024793336**

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

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I76 **UNIVERSAL AUTO CENTER** **CERS HAZ WASTE** **S113068448**
SSW **1838 W 11TH ST** **HAZNET** **N/A**
1/8-1/4 **UPLAND, CA 91786** **CERS**
0.146 mi. **HWTS**
772 ft. **Site 15 of 22 in cluster I**

Relative: **Lower**
Actual: **1310 ft.**

CERS HAZ WASTE:
Name: WEST WORKS
Address: 1838 W 11TH ST UNIT D
City,State,Zip: UPLAND, CA 91786
Site ID: 85401
CERS ID: 10046638
CERS Description: Hazardous Waste Generator

HAZNET:
Name: UNIVERSAL AUTO CENTER
Address: 1838 W 11TH ST
Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000
Contact: GENEVIEVE PEREZ
Telephone: 9099205225
Mailing Name: Not reported
Mailing Address: 1838 W 11TH ST UNIT B

Year: 1996
Gepaid: CAL000121620
TSD EPA ID: CAD008252405
CA Waste Code: 214 - Unspecified solvent mixture
Disposal Method: R01 - Recycler
Tons: 0.198

Year: 1994
Gepaid: CAL000121620
TSD EPA ID: CAD008302903
CA Waste Code: 461 - Paint sludge
Disposal Method: R01 - Recycler
Tons: 0.2293

Additional Info:
Year: 1996

UNIVERSAL AUTO CENTER (Continued) **S113068448**

Gen EPA ID: CAL000121620

Shipment Date: 19960104
Creation Date: 10/9/1996 0:00:00
Receipt Date: 19960104
Manifest ID: 92072682
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: 214 - Unspecified solvent mixture
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 0.198
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: 1994
Gen EPA ID: CAL000121620

Shipment Date: 19940309
Creation Date: 3/25/1996 0:00:00
Receipt Date: 19940311
Manifest ID: 93342317
Trans EPA ID: CAD980675789
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD008302903
Trans Name: Not reported
TSDF Alt EPA ID: CAD008302903
TSDF Alt Name: Not reported
Waste Code Description: 461 - Paint sludge
RCRA Code: F003
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

CERS:
Name: WEST WORKS

UNIVERSAL AUTO CENTER (Continued) **S113068448**

Address: 1838 W 11TH ST UNIT D
City,State,Zip: UPLAND, CA 91786
Site ID: 85401
CERS ID: 10046638
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 85401
Site Name: WEST WORKS
Violation Date: 11-30-2015
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 11/30/2016. A business plan was last submitted in 2009.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 85401
Site Name: WEST WORKS
Violation Date: 08-07-2018
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 08/28/2018. OBSERVATION: At time of inspection, the EPA ID number for this facility, CAL000137598 was inactive. CORRECTIVE ACTION: Obtain a permanent EPA ID number by submitting form 1358 to DTSC. Submit a signed statement indicating that a valid EPA ID number has been obtained.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 85401
Site Name: WEST WORKS
Violation Date: 08-07-2018
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 08/28/2018. OBSERVATION: At time of inspection, the last Business Plan submittal to CERS was dated 11/30/16. CORRECTIVE ACTION: Review and certify the business plan annually.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-07-2018
Violations Found: Yes

UNIVERSAL AUTO CENTER (Continued) **S113068448**

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: 08-07-2018
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: 11-30-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: west works inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: west works inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 85401
Site Name: WEST WORKS
Site Address: 1838 W 11TH ST UNIT D
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 11-30-2015
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

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: STEVE WEST
Entity Title: OWNER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported

UNIVERSAL AUTO CENTER (Continued) **S113068448**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	STEVE WEST
Entity Title:	Not reported
Affiliation Address:	1838 W 11TH ST, UNIT 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:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1838 WEST 11TH ST, UNIT D
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	WEST, STEVE
Entity Title:	Not reported
Affiliation Address:	1838 W 11TH ST D
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 920-3046
Affiliation Type Desc:	Operator
Entity Name:	STEVE WEST
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) 920-3046
Affiliation Type Desc:	Parent Corporation
Entity Name:	WEST WORKS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

UNIVERSAL AUTO CENTER (Continued) **S113068448**

Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: UNIVERSAL AUTO CENTER
Address: 1838 W 11TH ST
Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000
EPA ID: CAL000121620
Inactive Date: 06/30/1998
Create Date: 02/15/1994
Last Act Date: 04/27/1999
Mailing Name: Not reported
Mailing Address: 1838 W 11TH ST UNIT B
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 917863505
Owner Name: GUILLERMO OR GENEVIVE PEREZ
Owner Address: 1413 BEAVER WAY
Owner Address 2: Not reported
Owner City,State,Zip: LA VERNE, CA 917500000
Contact Name: GENEVIEVE PEREZ
Contact Address: INACT PER 98VQ FINAL NOTICE
Contact Address 2: - BATCH 4/27
City,State,Zip: UPLAND, CA 917860000

I77 **WEST WORKS** **San Bern. Co. Permit** **S121309698**
SSW **1838 W 11TH UNIT D** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.146 mi.
772 ft. **Site 16 of 22 in cluster I**

Relative: **Lower**
Actual: **1310 ft.**

San Bern. Co. Permit:
Name: WEST WORKS
Address: 1838 W 11TH UNIT D
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0007262
Owner: WEST, STEVE
Permit Number: PT0021533
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 12/31/2020

Name: WEST WORKS
Address: 1838 W 11TH UNIT D
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0007262
Owner: WEST, STEVE
Permit Number: PT0006505
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 12/31/2020

I78 **SIERRA AUTO BODY & PAINT, INC** **San Bern. Co. Permit** **S106911089**
SSW **1838 W 11TH ST E** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.146 mi.
772 ft. **Site 17 of 22 in cluster I**

Relative: **Lower**
Actual: **1310 ft.**

San Bern. Co. Permit:

Name:	SIERRA AUTO BODY & PAINT, INC
Address:	1838 W 11TH ST E
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006171
Owner:	MORAN, ROBERTO A.
Permit Number:	PT0008857
Permit Category:	CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	04/30/2004

I79 **PURE GOLD RADIATOR** **RCRA-SQG** **1000196897**
SSW **1838 W 11TH ST** **FINDS** **CAD982037111**
1/8-1/4 **UPLAND, CA 91786** **ECHO**
0.146 mi.
772 ft. **Site 18 of 22 in cluster I**

Relative: **Lower**
Actual: **1310 ft.**

RCRA-SQG:

Date Form Received by Agency:		1987-09-15 00:00:00.0
Handler Name:	PURE GOLD RADIATOR	
Handler Address:		1838 W 11TH ST
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAD982037111
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		1838 W 11TH ST
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		714-985-8577
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
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:		CA
State District:		4
Mailing Address:		W 11TH ST
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		CARRILLO JOHN
Owner Type:		Private
Operator Name:		NOT REQUIRED
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

PURE GOLD RADIATOR (Continued) **1000196897**

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 17:30:07.0
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:	CARRILLO JOHN
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

PURE GOLD RADIATOR (Continued) **1000196897**

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: 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: 1987-09-15 00:00:00.0
Handler Name: PURE GOLD RADIATOR
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
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: 110002784372

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.

PURE GOLD RADIATOR (Continued) **1000196897**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000196897
Registry ID:	110002784372
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002784372
Name:	PURE GOLD RADIATOR
Address:	1838 W 11TH ST
City,State,Zip:	UPLAND, CA 91786

I80 **LEMCO PRECISION INC.** **RCRA NonGen / NLR** **1024760635**
SSW **1842 W. 11TH STREET UNIT A** **CAC002980490**
1/8-1/4 **UPLAND, CA 91786**
0.150 mi.
791 ft. **Site 19 of 22 in cluster I**

Relative: **Lower**

Actual: **1307 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2018-09-15 00:00:00.0
Handler Name:	LEMCO PRECISION INC.	
Handler Address:		1842 W. 11TH STREET UNIT A
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAC002980490
Contact Name:		GENE LOGAN
Contact Address:		1842 W 11TH STREET UNIT A
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		951-313-8576
Contact Fax:		Not reported
Contact Email:		LEMCO88@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:		1842 W. 11TH STREET UNIT A
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		GENE LOGAN
Owner Type:		Other
Operator Name:		GENE LOGAN
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

LEMCO PRECISION INC. (Continued) **1024760635**

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:	2018-10-01 18:38:17.0
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:	GENE LOGAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1842 W 11TH STREET UNIT A
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	951-313-8576
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

LEMCO PRECISION INC. (Continued) **1024760635**

Owner/Operator Indicator: Owner
Owner/Operator Name: GENE LOGAN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1842 W. 11TH STREET UNIT A
Owner/Operator City,State,Zip: UPLAND, CA 91786
Owner/Operator Telephone: 951-313-8576
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2018-09-15 00:00:00.0
Handler Name: LEMCO PRECISION 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: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 332710
NAICS Description: MACHINE SHOPS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

I81 **MORE THAN JUST CARS, INC** **San Bern. Co. Permit** **S104768423**
SSW **1842 W 11TH ST C** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.150 mi.
791 ft. **Site 20 of 22 in cluster I**

Relative: **Lower**
Actual: **1307 ft.**

San Bern. Co. Permit:
Name: MORE THAN JUST CARS, INC
Address: 1842 W 11TH ST C
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004848
Owner: DARNELL, RICHARD
Permit Number: PT0005889
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2004

I82 **LEMCO PRECISION INC.** **San Bern. Co. Permit** **S107448048**
SSW **1842 W 11TH ST** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.150 mi.
791 ft. **Site 21 of 22 in cluster I**

Relative: **Lower**

Actual: **1307 ft.**

San Bern. Co. Permit:

Name:	LEMCO PRECISION INC.
Address:	1842 W 11TH ST
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0004413
Owner:	LEMCO, JIM
Permit Number:	PT0001196
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	05/31/2003

Name:	LEMCO PRECISION INC.
Address:	1842 W 11TH ST
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0004413
Owner:	LEMCO, JIM
Permit Number:	PT0001199
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	05/31/2003

J83 **PARAGON FLUID POWER** **CERS HAZ WASTE** **S104768868**
ESE **687 N BENSON AVE E & F** **San Bern. Co. Permit** **N/A**
1/8-1/4 **UPLAND, CA 91786** **CERS**
0.154 mi.
811 ft. **Site 1 of 4 in cluster J**

Relative: **Lower**

Actual: **1337 ft.**

CERS HAZ WASTE:

Name:	PARAGON FLUID POWER
Address:	687 N BENSON AVE E & F
City,State,Zip:	UPLAND, CA 91786
Site ID:	141601
CERS ID:	10047184
CERS Description:	Hazardous Waste Generator

Name:	ROY'S AUTO REPAIR
Address:	687 N BENSON AVE UNIT A
City,State,Zip:	UPLAND, CA 91786
Site ID:	149257
CERS ID:	10050637
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	PARAGON FLUID POWER
Address:	687 N BENSON AVE E & F
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0007592
Owner:	HIDALGO, FELIX
Permit Number:	PT0013045
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS

PARAGON FLUID POWER (Continued) **S104768868**

Facility Status: ACTIVE
Expiration Date: 10/31/2020

Name: PARAGON FLUID POWER
Address: 687 N BENSON AVE E & F
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0007592
Owner: HIDALGO, FELIX
Permit Number: PT0013044
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 10/31/2020

CERS:
Name: ROY'S AUTO REPAIR
Address: 687 N BENSON AVE UNIT A
City,State,Zip: UPLAND, CA 91786
Site ID: 149257
CERS ID: 10050637
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 149257
Site Name: ROY'S AUTO REPAIR
Violation Date: 07-17-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: OBSERVATION: At the time of inspection the business plan submitted to CERS on 3/1/2019 was missing a site map. CORRECTIVE ACTION: Submit an accurate and complete site map into CERS. CERS ID #10050637.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 149257
Site Name: ROY'S AUTO REPAIR
Violation Date: 07-17-2020
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 and accurate on or before the annual due date.
Violation Notes: OBSERVATION: At the time of inspection the business plan was last submitted to CERS on 3/1/2019. CORRECTIVE ACTION: Review and certify the business plan via CERS. Your CERS ID number is 10050637.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 149257
Site Name: ROY'S AUTO REPAIR
Violation Date: 04-26-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

PARAGON FLUID POWER (Continued) **S104768868**

Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/06/2017. 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: 149257
Site Name: ROY'S AUTO REPAIR
Violation Date: 07-17-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: OBSERVATION: At the time of inspection the business plan submitted to CERS on 3/1/2019 was missing the emergency response/contingency plan. CORRECTIVE ACTION: Submit a complete emergency response plan via CERS. CERS ID #10050637.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 149257
Site Name: ROY'S AUTO REPAIR
Violation Date: 04-04-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 04/14/2014.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 149257
Site Name: ROY'S AUTO REPAIR
Violation Date: 04-26-2017
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 05/26/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 149257
Site Name: ROY'S AUTO REPAIR
Violation Date: 07-17-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site

PARAGON FLUID POWER (Continued) **S104768868**

at or above reportable quantities.
Violation Notes: OBSERVATION: At the time of inspection, the following items were missing from the hazardous materials business plan submitted on 3/1/2019: (1) 55 gallon drum of new oil, (1) 110 gallon drum of new oil, (2) 55 gallon drums of new coolant, (4) 55 gallon drums of used oil, (1) 55 gallon drum of drained used oil filters, and (1) 55 gallon drum of waste coolant. CORRECTIVE ACTION: Update the hazardous materials inventory to include (1) 55 gallon drum of new oil, (1) 110 gallon drum of new oil, (2) 55 gallon drums of new coolant, (4) 55 gallon drums of used oil, (1) 55 gallon drum of drained used oil filters, and (1) 55 gallon drum of waste coolant and resubmit the hazardous materials inventory via CERS. CERS ID #10050637.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROYS INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: rOYS INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-26-2017
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: 04-26-2017
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
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-17-2020
Violations Found: No
Eval Type: Routine done by local agency

PARAGON FLUID POWER (Continued) **S104768868**

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: 07-17-2020
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

Enforcement Action:
Site ID: 149257
Site Name: ROY'S AUTO REPAIR
Site Address: 687 N BENSON AVE UNIT A
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-04-2014
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: HMRRP
Enf Action Source: CERS

Site ID: 149257
Site Name: ROY'S AUTO REPAIR
Site Address: 687 N BENSON AVE UNIT A
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-26-2017
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: HMRRP
Enf Action Source: CERS

Site ID: 149257
Site Name: ROY'S AUTO REPAIR
Site Address: 687 N BENSON AVE UNIT A
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-26-2017
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: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Document Preparer

PARAGON FLUID POWER (Continued) **S104768868**

Entity Name:	SENDY VELASQUEZ
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:	687 NORTH BENSON AVE, STE. 'A'
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	KHOSROW NOOROHANI
Entity Title:	Not reported
Affiliation Address:	687 N BENSON AVE UNIT A
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 373-3313
Affiliation Type Desc:	Operator
Entity Name:	khosrow Noorahani
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) 223-4145
Affiliation Type Desc:	Environmental Contact
Entity Name:	ROY NOORAHANI
Entity Title:	Not reported
Affiliation Address:	687 N BENSON AVE
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

PARAGON FLUID POWER (Continued) **S104768868**

Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Parent Corporation
Entity Name: ROY'S AUTO REPAIR
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: PARAGON FLUID POWER
Address: 687 N BENSON AVE E & F
City,State,Zip: UPLAND, CA 91786
Site ID: 141601
CERS ID: 10047184
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 141601
Site Name: PARAGON FLUID POWER
Violation Date: 09-03-2013
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 09/03/2013. 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: 141601
Site Name: PARAGON FLUID POWER
Violation Date: 09-03-2013
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 09/03/2013. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 141601
Site Name: PARAGON FLUID POWER
Violation Date: 06-11-2020
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: Returned to compliance on 06/11/2020. OBSERVATION: At the time of inspection (1) approximately 280 gallon tote of used oil was observed without a hazardous waste label. CORRECTED: A hazardous waste label

PARAGON FLUID POWER (Continued) **S104768868**

with all required information was added by Mr. Veliz at the time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 141601
Site Name: PARAGON FLUID POWER
Violation Date: 06-11-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 07/08/2020. OBSERVATION: At the time of inspection the site map submitted to CERS on 6/11/2020 was observed missing hazardous materials storage areas. CORRECTIVE ACTION: Add hazardous materials storage area to the site map and resubmit the site map into CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 141601
Site Name: PARAGON FLUID POWER
Violation Date: 06-11-2020
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 06/18/2020. OBSERVATION: At the time of inspection EPA ID number CAL000252429 was inactive. CORRECTIVE ACTION: Reactivate your EPA ID number by submitting form 1358 to DTSC.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 141601
Site Name: PARAGON FLUID POWER
Violation Date: 09-03-2013
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 09/13/2013.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 141601
Site Name: PARAGON FLUID POWER
Violation Date: 03-22-2017
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 a business plan when storing/handling a hazardous material at or above reportable

PARAGON FLUID POWER (Continued) **S104768868**

quantities.
Violation Notes: Returned to compliance on 03/29/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 141601
Site Name: PARAGON FLUID POWER
Violation Date: 03-22-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 03/27/2017. 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: 141601
Site Name: PARAGON FLUID POWER
Violation Date: 03-22-2017
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 03/29/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-22-2017
Violations Found: Yes
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: 03-22-2017
Violations Found: Yes
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: 06-11-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department

PARAGON FLUID POWER (Continued) **S104768868**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-11-2020
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: 09-03-2013
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: 09-03-2013
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

Enforcement Action:
Site ID: 141601
Site Name: PARAGON FLUID POWER
Site Address: 687 N BENSON AVE E & F
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 03-22-2017
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: HMRRP
Enf Action Source: CERS

Site ID: 141601
Site Name: PARAGON FLUID POWER
Site Address: 687 N BENSON AVE E & F
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 03-22-2017
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: HW
Enf Action Source: CERS

PARAGON FLUID POWER (Continued) **S104768868**

Site ID: 141601
Site Name: PARAGON FLUID POWER
Site Address: 687 N BENSON AVE E & F
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 09-03-2013
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
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 141601
Site Name: PARAGON FLUID POWER
Site Address: 687 N BENSON AVE E & F
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 09-03-2013
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
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: HIDALGO, FELIX
Entity Title: Not reported
Affiliation Address: 8798 EDWIN STREET
Affiliation City: RANCHO CUCAMONGA
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91730
Affiliation Phone: (909) 982-4313

Affiliation Type Desc: Operator
Entity Name: Felix Hidalgo
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) 982-4313

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

PARAGON FLUID POWER (Continued) **S104768868**

Affiliation Type Desc:	Environmental Contact
Entity Name:	VERONICA VELIZ
Entity Title:	Not reported
Affiliation Address:	687 N BENSON AVE UNIT F
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:	687 N BENSON AVE, UNITS E & F
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	felix hidalgo
Entity Title:	Office
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:	Parent Corporation
Entity Name:	PARAGON FLUID POWER
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

K84 **OTT PRECISION MACHINING** **HAZNET** **S104768747**
SSE **1658 W 11TH ST STE J** **San Bern. Co. Permit** **N/A**
1/8-1/4 **UPLAND, CA 91786** **HWTS**
0.158 mi.
833 ft. **Site 1 of 4 in cluster K**

Relative: HAZNET:
Lower

Actual: Name:	OTT PRECISION MACHINING
1309 ft. Address:	1658 W 11TH ST STE J
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917863565
Contact:	EDWARD OTT
Telephone:	9099460862
Mailing Name:	Not reported
Mailing Address:	1658 W 11TH ST STE J
Year:	2011

OTT PRECISION MACHINING (Continued) **S104768747**

Gepaid:	CAL000062391
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.084
Year:	2003
Gepaid:	CAL000062391
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.0714
Year:	2002
Gepaid:	CAL000062391
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.126
Year:	2001
Gepaid:	CAL000062391
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.2814
Year:	1998
Gepaid:	CAL000062391
TSD EPA ID:	CAT000613893
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.063
Year:	1997
Gepaid:	CAL000062391
TSD EPA ID:	CAD089446710
CA Waste Code:	133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method:	H01 - Transfer Station
Tons:	0.4586
Year:	1997
Gepaid:	CAL000062391
TSD EPA ID:	CAD089446710
CA Waste Code:	133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method:	-
Tons:	0.2293
Year:	1996
Gepaid:	CAL000062391
TSD EPA ID:	CAD089446710

OTT PRECISION MACHINING (Continued) **S104768747**

CA Waste Code: 133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method: -
Tons: 0.2293

Year: 1996
Gepaid: CAL000062391
TSD EPA ID: CAD089446710
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: H01 - Transfer Station
Tons: 0.231

Year: 1996
Gepaid: CAL000062391
TSD EPA ID: CAD089446710
CA Waste Code: 133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method: H01 - Transfer Station
Tons: 0.4586

Click this hyperlink while viewing on your computer to access
4 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 1993
Gen EPA ID: CAL000062391

Shipment Date: 19931019
Creation Date: 9/13/1995 0:00:00
Receipt Date: 19931021
Manifest ID: 89795583
Trans EPA ID: CAT982518433
Trans Name: Not reported
Trans 2 EPA ID: CAD982467771
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: Not reported
TSDF Alt EPA ID: CAT080013352
TSDF Alt Name: Not reported
Waste Code Description: 135 - Unspecified aqueous solution
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.231
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: 19930723
Creation Date: 9/11/1995 0:00:00
Receipt Date: 19930727
Manifest ID: 92563877
Trans EPA ID: ILD984908202
Trans Name: Not reported
Trans 2 EPA ID: ILD984908202

OTT PRECISION MACHINING (Continued) **S104768747**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	341 - Organic liquids (nonsolvents) with halogens
RCRA Code:	D008
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1245
Waste Quantity:	249
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:	19930331
Creation Date:	9/6/1995 0:00:00
Receipt Date:	19930405
Manifest ID:	92132026
Trans EPA ID:	ILD051060408
Trans Name:	Not reported
Trans 2 EPA ID:	ILD051060408
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	341 - Organic liquids (nonsolvents) with halogens
RCRA Code:	D008
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.249
Waste Quantity:	498
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

Additional Info:

Year:	1997
Gen EPA ID:	CAL000062391

Shipment Date:	19970826
Creation Date:	12/11/1997 0:00:00
Receipt Date:	Not reported
Manifest ID:	96846023
Trans EPA ID:	CAT982518433
Trans Name:	Not reported
Trans 2 EPA ID:	CAL921764910
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD089446710
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

OTT PRECISION MACHINING (Continued) **S104768747**

Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	- Not reported
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
Shipment Date:	19970820
Creation Date:	7/23/1998 0:00:00
Receipt Date:	19970820
Manifest ID:	96846023
Trans EPA ID:	CAT982518433
Trans Name:	Not reported
Trans 2 EPA ID:	CAL921764910
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD089446710
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
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
Shipment Date:	19970501
Creation Date:	9/12/1997 0:00:00
Receipt Date:	19970502
Manifest ID:	96589177
Trans EPA ID:	CAT982518433
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD089446710
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD089446710
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
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

OTT PRECISION MACHINING (Continued) **S104768747**

Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	1995
Gen EPA ID:	CAL000062391
Shipment Date:	19950808
Creation Date:	4/2/1996 0:00:00
Receipt Date:	19950809
Manifest ID:	95304696
Trans EPA ID:	CAT982518433
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.231
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:	2002
Gen EPA ID:	CAL000062391
Shipment Date:	20020806
Creation Date:	3/13/2003 18:31:17
Receipt Date:	20020806
Manifest ID:	21745682
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

OTT PRECISION MACHINING (Continued) **S104768747**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020515
Creation Date:	7/30/2002 18:31:21
Receipt Date:	20020515
Manifest ID:	21593604
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0546
Waste Quantity:	13
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:	2001
Gen EPA ID:	CAL000062391
Shipment Date:	20011206
Creation Date:	2/19/2002 0:00:00
Receipt Date:	20011206
Manifest ID:	21321746
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1008
Waste Quantity:	24
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:	20010628
Creation Date:	8/24/2001 0:00:00

OTT PRECISION MACHINING (Continued) **S104768747**

Receipt Date:	20010629
Manifest ID:	21128224
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0672
Waste Quantity:	16
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:	20010405
Creation Date:	6/12/2001 0:00:00
Receipt Date:	20010406
Manifest ID:	20626752
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0504
Waste Quantity:	12
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:	20010115
Creation Date:	3/22/2001 0:00:00
Receipt Date:	20010115
Manifest ID:	20392332
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

OTT PRECISION MACHINING (Continued) **S104768747**

TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.063
Waste Quantity:	15
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:	CAL000062391
Shipment Date:	19980814
Creation Date:	10/1/1998 0:00:00
Receipt Date:	19980818
Manifest ID:	98270280
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.063
Waste Quantity:	15
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:	CAL000062391
Shipment Date:	19961219
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19961220
Manifest ID:	96587766
Trans EPA ID:	CAT982518433
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD089446710
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

OTT PRECISION MACHINING (Continued) **S104768747**

TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
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
Shipment Date:	19960916
Creation Date:	5/21/1997 0:00:00
Receipt Date:	19960917
Manifest ID:	96586664
Trans EPA ID:	CAT982518433
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD089446710
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
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
Shipment Date:	19960510
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960510
Manifest ID:	95675286
Trans EPA ID:	CAT982518433
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD089446710
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.2293
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

OTT PRECISION MACHINING (Continued) **S104768747**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19960105
Creation Date:	10/9/1996 0:00:00
Receipt Date:	19960109
Manifest ID:	95667951
Trans EPA ID:	CAT982518433
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD089446710
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD089446710
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.231
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:	2003
Gen EPA ID:	CAL000062391
Shipment Date:	20030204
Creation Date:	5/13/2003 18:32:19
Receipt Date:	20030204
Manifest ID:	22115780
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0714
Waste Quantity:	17
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

OTT PRECISION MACHINING (Continued) **S104768747**

Additional Info:

Year:	2011
Gen EPA ID:	CAL000062391
Shipment Date:	20110720
Creation Date:	12/15/2011 18:30:29
Receipt Date:	20110720
Manifest ID:	004270350FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.084
Waste Quantity:	20
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

San Bern. Co. Permit:

Name:	OTT PRECISION MACHINING
Address:	1658 W 11TH ST STE J
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0005133
Owner:	ED OTT
Permit Number:	PT0004760
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	INACTIVE
Expiration Date:	08/31/2020

Name:	OTT PRECISION MACHINING
Address:	1658 W 11TH ST STE J
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0005133
Owner:	ED OTT
Permit Number:	PT0036855
Permit Category:	HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status:	INACTIVE
Expiration Date:	08/31/2017

HWTS:

Name:	OTT PRECISION MACHINING
Address:	1658 W 11TH ST STE J
Address 2:	Not reported

OTT PRECISION MACHINING (Continued) **S104768747**

City,State,Zip: UPLAND, CA 917863565
EPA ID: CAL000062391
Inactive Date: Not reported
Create Date: 03/11/1992
Last Act Date: 10/22/2018
Mailing Name: Not reported
Mailing Address: 1658 W 11TH ST STE J
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 917863565
Owner Name: EDWARD OTT
Owner Address: 15 ORANGE VIA
Owner Address 2: Not reported
Owner City,State,Zip: ANAHEIM, CA 928011038
Contact Name: EDWARD OTT
Contact Address: 1658 W 11TH ST STE J
Contact Address 2: Not reported
City,State,Zip: UPLAND, CA 91786

NAICS:
EPA ID: CAL000062391
Create Date: 2002-03-14 16:36:27.000
NAICS Code: 333512
NAICS Description: Machine Tool (Metal Cutting Types) Manufacturing
Issued EPA ID Date: 1992-03-11 00:00:00
Inactive Date: Not reported
Facility Name: OTT PRECISION MACHINING
Facility Address: 1658 W 11TH ST STE J
Facility Address 2: Not reported
Facility City: UPLAND
Facility County: Not reported
Facility State: CA
Facility Zip: 917863565

K85 **CREATIVE CARVINGS** **San Bern. Co. Permit** **S104765572**
SSE **1658 W 11TH ST H** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.158 mi.
833 ft. **Site 2 of 4 in cluster K**

Relative: **Lower**
Actual: **1309 ft.**

San Bern. Co. Permit:
Name: CREATIVE CARVINGS
Address: 1658 W 11TH ST H
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0002535
Owner: CREATIVE CARVINGS
Permit Number: PT0004788
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 08/31/2011

K86 **OTT PRECISION MACHINING** **RCRA NonGen / NLR** **1024789275**
SSE **1658 W 11TH ST STE J** **CAL000062391**
1/8-1/4 **UPLAND, CA 91786**
0.158 mi.
833 ft. **Site 3 of 4 in cluster K**

Relative: **Lower**

Actual: **1309 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	1992-03-11 00:00:00.0
Handler Name:	OTT PRECISION MACHINING
Handler Address:	1658 W 11TH ST STE J
Handler City,State,Zip:	UPLAND, CA 91786-3565
EPA ID:	CAL000062391
Contact Name:	EDWARD OTT
Contact Address:	1658 W 11TH ST STE J
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	714-585-6577
Contact Fax:	000-000-0000
Contact Email:	PRISSY0PANTS@YAHOO.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:	1658 W 11TH ST STE J
Mailing City,State,Zip:	UPLAND, CA 91786-3565
Owner Name:	EDWARD OTT
Owner Type:	Other
Operator Name:	EDWARD OTT
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

OTT PRECISION MACHINING (Continued) **1024789275**

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 15:41:51.0
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:	EDWARD OTT
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	15 ORANGE VIA
Owner/Operator City,State,Zip:	ANAHEIM, CA 92801-1038
Owner/Operator Telephone:	714-992-5318
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	EDWARD OTT
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1658 W 11TH ST STE J
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	714-585-6577
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

OTT PRECISION MACHINING (Continued) **1024789275**

Historic Generators:
Receive Date: 1992-03-11 00:00:00.0
Handler Name: OTT PRECISION MACHINING
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: 333512
NAICS Description: MACHINE TOOL (METAL CUTTING TYPES) MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

L87 **AT&T MOBILITY - (USID42615)** **San Bern. Co. Permit** **S124442860**
SW **1837 W 11TH ST** **CERS** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.158 mi.
834 ft. **Site 1 of 6 in cluster L**

Relative: **Lower**

Actual: **1310 ft.**

San Bern. Co. Permit:
Name: AT&T MOBILITY-(USID42615)
Address: 1837 W 11TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0011855
Owner: New Cingular Wireless PCS, LLC dba AT&T Mobility
Permit Number: PT0039834
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 10/31/2020

CERS:
Name: AT&T MOBILITY - (USID42615)
Address: 1837 W 11TH ST
City,State,Zip: UPLAND, CA 91786
Site ID: 551115
CERS ID: 10815544
CERS Description: Chemical Storage Facilities

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Peter Burnell, Sigma Consultants, Inc.
Entity Title: Not reported
Affiliation Address: Not reported

AT&T MOBILITY - (USID42615) (Continued) **S124442860**

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:	New Cingular Wireless PCS, LLC dba AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	308 S. Akard St., 17th Floor
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	75202
Affiliation Phone:	(214) 464-1712
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:	Environmental Contact
Entity Name:	AT&T EH&S Hotline - Option #1
Entity Title:	Not reported
Affiliation Address:	308 S. Akard St., 17th Floor
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	75202
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	308 S. Akard St., 17th Floor
Affiliation City:	Dallas
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	75202
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jeremy McGrue
Entity Title:	National EPCRA Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator

AT&T MOBILITY - (USID42615) (Continued) **S124442860**

Entity Name:	AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(800) 566-9347
Affiliation Type Desc:	Parent Corporation
Entity Name:	AT&T Mobility
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

H88 **CARL'S JR #270** **San Bern. Co. Permit** **S109598470**
East **1610 W FOOTHILL BLVD** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.160 mi.
846 ft. **Site 5 of 5 in cluster H**

Relative: **Higher**
Actual: **1350 ft.**

San Bern. Co. Permit:

Name:	CARL'S JR #270
Address:	1610 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0012456
Owner:	CKE RESTAURANTS INC
Permit Number:	PT0021817
Permit Category:	BULK CO2 AT RETAIL FOOD FACILITIES
Facility Status:	INACTIVE
Expiration Date:	05/31/2010

M89 **UNOCAL** **UST** **U003785525**
ENE **1639 W FOOTHILL BLVD** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.166 mi.
876 ft. **Site 1 of 3 in cluster M**

Relative: **Higher**
Actual: **1361 ft.**

UST:

Name:	UNOCAL
Address:	1639 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Facility ID:	99047800
Permitting Agency:	SAN BERNARDINO COUNTY
Latitude:	34.1088939
Longitude:	-117.6800301
Name:	PACIFIC CAR WASH
Address:	1639 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786

UNOCAL (Continued) **U003785525**

Facility ID: FA0006931
Permitting Agency: San Bernardino County Fire Department
Latitude: 34.107468
Longitude: -117.681396

M90 **CABLE CAR WASH** **CERS HAZ WASTE** **S105698409**
ENE **1639 W FOOTHILL BLVD** **SWEEPS UST** **N/A**
1/8-1/4 **UPLAND, CA 91786** **CERS TANKS**
0.166 mi. **San Bern. Co. Permit**
876 ft. **Site 2 of 3 in cluster M** **CERS**

Relative:
Higher

Actual:
1361 ft.

CERS HAZ WASTE:
Name: PACIFIC CAR WASH
Address: 1639 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 54627
CERS ID: 10046011
CERS Description: Hazardous Waste Generator

SWEEPS UST:
Name: CABLE CAR WASH
Address: 1639 W FOOTHILL BLVD
City: UPLAND
Status: Active
Comp Number: 353
Number: 1
Board Of Equalization: Not reported
Referral Date: 02-16-93
Action Date: 02-16-93
Created Date: 02-16-93
Owner Tank Id: 1
SWRCB Tank Id: 36-000-000353-000001
Tank Status: A
Capacity: 12000
Active Date: 02-16-93
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 1

CERS TANKS:
Name: PACIFIC CAR WASH
Address: 1639 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 54627
CERS ID: 10046011
CERS Description: Underground Storage Tank

San Bern. Co. Permit:
Name: PACIFIC CAR WASH
Address: 1639 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006931
Owner: MIKE CHOO
Permit Number: PT0010628

CABLE CAR WASH (Continued) **S105698409**

Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 12/31/2020

Name: PACIFIC CAR WASH
Address: 1639 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006931
Owner: MIKE CHOO
Permit Number: PT0010629
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 12/31/2020

Name: PACIFIC CAR WASH
Address: 1639 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006931
Owner: MIKE CHOO
Permit Number: PT0010630
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 12/31/2020

Name: PACIFIC CAR WASH
Address: 1639 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006931
Owner: MIKE CHOO
Permit Number: PT0010631
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: ACTIVE
Expiration Date: 12/31/2020

Name: PACIFIC CAR WASH
Address: 1639 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006931
Owner: MIKE CHOO
Permit Number: PT0009813
Permit Category: HAZMAT HANDLER, UST ONLY - PER YEAR
Facility Status: ACTIVE
Expiration Date: 12/31/2020

Name: PACIFIC CAR WASH
Address: 1639 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006931
Owner: MIKE CHOO
Permit Number: PT0022120
Permit Category: WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status: ACTIVE

CABLE CAR WASH (Continued) **S105698409**

Expiration Date: 12/31/2020

CERS:

Name:	PACIFIC CAR WASH
Address:	1639 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Site ID:	54627
CERS ID:	10046011
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	54627
Site Name:	PACIFIC CAR WASH
Violation Date:	02-05-2014
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 02/10/2014. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) THERE IS NO INFORMATION ON LABELS-COMPLETE LABELS
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	54627
Site Name:	PACIFIC CAR WASH
Violation Date:	02-03-2020
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 02/21/2020. CORRECTIVE ACTION: Update Certificate of Financial Responsibility by providing proof of pollution insurance.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	54627
Site Name:	PACIFIC CAR WASH
Violation Date:	02-05-2014
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 02/05/2014. EVIDENCE OF FINANCIAL RESPONSIBILITY HAS NOT BEEN SUBMITTED TO CERS. SUBMIT THIS DOCUMENT TO CERS WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	54627
Site Name:	PACIFIC CAR WASH
Violation Date:	02-06-2015
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291

CABLE CAR WASH (Continued) **S105698409**

Violation Description:	Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes:	Returned to compliance on 02/24/2015. OBSERVED POOLED LIQUIDS INSIDE THE DIESEL FILL SUMP AND VENT SUMP. SUBMIT A WORK PLAN TO THIS DEPARTMENT ADDRESSING HOW THE PREVIOUSLY MENTIONED SUMPS ARE TO MAINTAINED IN SUCH A MANNER AS TO PREVENT LIQUID INTRUSION.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	54627
Site Name:	PACIFIC CAR WASH
Violation Date:	02-06-2015
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 02/24/2015. Failure to have a written monitoring program with monitoring procedures and response plan. (CCR 2632(d)) UST MONITORING PLAN SUBMITTED ON LINE IN CERS INDICATES THE USE OF VR208-420 AS ANNULAR SENSORS WHEN ONLY VR420 IS USED. UPDATE UST MONITORING PLAN ON LINE IN CERS ADDRESSING THE PREVIOUSLY NOTED DEFICIENCY WITHIN 30 DAYS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	54627
Site Name:	PACIFIC CAR WASH
Violation Date:	02-05-2016
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description:	Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes:	Returned to compliance on 02/05/2016. OBSERVATION: LIQUID WAS OBSERVED IN THE VENT BOX(SUMP). COMPLIANCE MET ON SITE: TECHNICIAN REMOVED LIQUID FROM SUMP.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	54627
Site Name:	PACIFIC CAR WASH
Violation Date:	02-05-2014
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 02/05/2014. Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a)) KEEP BUNGS CLOSED-CORRECTED TODAY
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	54627
Site Name:	PACIFIC CAR WASH
Violation Date:	02-02-2018
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7,

CABLE CAR WASH (Continued) **S105698409**

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 06/10/2018. OBSERVATION: THE UST INFORMATION IN CERS NOTE THE UST INSTALL DATE AS 04/01/1999. AS PER FILE REVIEW, USTS WERE INSTALLED ON 01/08/1990. COMPLIANCE REQUIREMENT: UPDATE CERS WITH CORRECT INFORMATION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Violation Date: 02-06-2015
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain records of repairs, lining, and upgrades on site, or off site if approved by the CUPA, for the life of the underground storage tank and/or failure to maintain written monitoring and maintenance records on site, or off site if approved by the CUPA, for a period of 3 years, 6 1/2 years for cathodic protection, and 5 years for written performance claims pertaining to release detection systems and calibration and maintenance records for such systems.
Violation Notes: Returned to compliance on 02/24/2015. L9 DIESEL ANNULAR SENSOR WENT INTO ALARM IN 5/17/2014, 5/18/2014, AND 6/28/2014. NO MAINTENANCE RECORDS WERE AVAILABLE FOR REVIEW ADDRESSING THE PREVIOUSLY MENTIONED ALARMS. OBTAIN RECORDS OF WHAT OCCURRED TO CAUSE THE ALARM AND HOW IT WAS ADDRESSED AND SUBMIT DOCUMENTATION TO THIS DEPARTMENT WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Violation Date: 02-03-2017
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, 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 02/10/2017. OBSERVATION: THE UNDERGROUND STORAGE TANK INFORMATION SUBMITTED TO CERS (DATED 2/1/17) CANNOT BE ACCEPTED DUE TO SEVERAL NOTED DEFICIENCIES. CORRECT THE FOLLOWING: 1.) UPDATE THE PRODUCT PIPING SECTION TO REFLECT THE USE OF FIBERGLASS FOR BOTH THE PRIMARY AND SECONDARY CONTAINMENTS (NOT FLEXIBLE PIPING; ALL FLEX PIPING WAS REMOVED DURING A TANK TOP UPGRADE IN 2013)-ALL TANKS 2.) ADD "FIBERGLASS" TO THE VAPOR RECOVERY SECONDARY CONTAINMENT PIPING (TANKS 1-3). ALL PIPING IS DOUBLE-WALLED FIBERGLASS. 3.) CHECK "YES" TO IDENTIFY THE PRESENCE OF THE VENT PIPING TRANSITION SUMP (ALL TANKS) 4.) UPDATE THE UDC CONSTRUCTION SECTION TO IDENTIFY THE CONSTRUCTION MATERIAL AS FIBERGLASS (NOT RIGID PLASTIC)-ALL TANKS. REQUIREMENT: WITHIN 30 DAYS, UPDATE THE CERS SUBMITTAL TO REFLECT THE ABOVE NOTED CHANGES AND RESUBMIT. UPON COMPLETION, SIGN AND RETURN THE CERTIFICATE OF COMPLIANCE TO JKOOYMAN@SBCFIRE.ORG.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

CABLE CAR WASH (Continued) **S105698409**

Site ID: 54627
Site Name: PACIFIC CAR WASH
Violation Date: 02-05-2014
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 02/10/2014. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) THERE IS NO ACCUMULATION DATE ON LABELS
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Violation Date: 02-03-2020
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: Returned to compliance on 06/05/2020. Hazardous Materials observed onsite are not reflected in CERS inventory. Update CERS inventory to reflect current onsite inventory. -In addition to fuel onsite the following chemicals were observed in quantities over 55 gallons: ----(3) 55-gallon poly drums of SuperDri Drying Agent ----(2) 55-gallon poly drums of Kleen Track 2A low pH Liquid PreSoak UN2586 ----(35) 5-gallon poly containers of Triple Foam Polish Blue Foam ----(2) 55-gallon poly drums of Kleen Track 2b Alkaline High Quality Liquid PreSoak Un1814 Other car wash chemicals previously reported were not observed -----(7) 5-gallon steel containers of hydraulic oil available to run carwash G below reportable quanitities. ----(18) 15-lbs each canisters of retail Propane The CO2 (carbon dioxide) used for beverage carbonation has been removed. Hazardous Waste observed onsite: --(2) 55-gallon poly drums currently empty available for UST related waste.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Violation Date: 02-05-2014
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 02/10/2014. Failure to manage hazardous waste lawfully (CHSC 25154) LABELS ARE NOT COMPLETE-FILL OUT LABEL TODAY
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Violation Date: 02-02-2018
Citation: HSC 6.7 25291(b) - California Health and Safety Code, Chapter 6.7,

CABLE CAR WASH (Continued) **S105698409**

Section(s) 25291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.
Violation Notes: Returned to compliance on 04/30/2018. OBSERVATION: 1) THE VEEDER ROOT MONITORING PANEL'S POWER SUPPLY WAS CONNECTED VIA LOOSE CORD TO A WALL PLUG. MANUFACTURER'S INSTALLATION PROTOCOLS WERE NOT FOLLOWED. 2) THE LIQUID SENSORS LOCATED IN THE DIESEL'S ANNULAR (VR 420) AND THE VENT BOX (VR 208) FAILED WHEN TESTED. - COMPLIANCE MET ON SITE: TECHNICIAN REPLACED AND RE-TESTED NEW SENSORS-PASSED. COMPLIANCE REQUIREMENT: 1) CONNECT THE VEEDER ROOT'S(TLS 350) POWER SUPPLY BY USING INDUSTRY STANDARDS. POWER SUPPLY SHOULD BE DEDICATED TO A SINGLE SOURCE/ BRAKER, AND POWER LINE SHOULD BE LINED IN A ELECTRICAL CONDUIT. 2) SUBMIT A COPY OF THE WORK ORDER DOCUMENTING THE REPAIR/ INSTALLATION OF POWER LINE TO THE MONITORING PANEL. 3) CALL FOR A WITNESS INSPECTION OF WORK COMPLETED.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Violation Date: 02-05-2014
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 02/10/2014. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) THERE IS NO INFORMATION ON LABELS-COMPLETE LABELS
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Violation Date: 02-05-2014
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 02/10/2014. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) THERE IS NO INFORMATION ON LABELS
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-02-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: PACIFIC CARS WASH- UST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-02-2018

CABLE CAR WASH (Continued) **S105698409**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	PACIFIC CARS WASH- UST MONITORING CERTIFICATION.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	UST HANDLER INSPECTION AND CERS REVIEW
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UST FIELD INSPECTION-ANNUAL MONITORING SYSTEM CERTIFICATION (4 TANKS) W/JOSE RODRIGUEZ
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2020
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Pacific Car Wash - haz waste inspection no violations
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Pacific Car Wash update CERS inventory
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-03-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Pacific Car Wash UST CUPA Inspection
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2014
Violations Found:	No
Eval Type:	Routine done by local agency

CABLE CAR WASH (Continued) **S105698409**

Eval Notes:	PACIFIC CAR WASH 1639 W FOOTHILL BLVD UPLAND
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	" "
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	PACIFIC CAR WASH 1639 W FOOTHILL BLVD UPLAND /WASTE INCIDENTAL TO UST INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	PACIFIC CAR WASH- UST WASTE INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	PACIIFIC CAR WASH- UST INSPECTION/ CUPA INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-05-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	PACIFIC CAR WASH- UST MONITORING CERTIFICATION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-06-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICATION.
Eval Division:	San Bernardino County Fire Department

CABLE CAR WASH (Continued) **S105698409**

Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-07-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Routine inspection with monitoring certification
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-07-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Overfill prevention inspection
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 54627
Site Name: PACIFIC CAR WASH
Site Address: 1639 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 02-03-2017
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: 54627
Site Name: PACIFIC CAR WASH
Site Address: 1639 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 02-05-2014
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: HW
Enf Action Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Site Address: 1639 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 02-05-2014
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

CABLE CAR WASH (Continued) **S105698409**

Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Site Address: 1639 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 02-05-2016
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: UST
Enf Action Source: CERS

Site ID: 54627
Site Name: PACIFIC CAR WASH
Site Address: 1639 W FOOTHILL BLVD
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 02-06-2015
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

Coordinates:
Site ID: 54627
Facility Name: PACIFIC CAR WASH
Env Int Type Code: HWG
Program ID: 10046011
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.107464
Longitude: -117.681381

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: MIKE CHOO
Entity Title: OPERATOR
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: MIKE CHOO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

CABLE CAR WASH (Continued) **S105698409**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(213) 458-9499
Affiliation Type Desc:	Property Owner
Entity Name:	PACIFC CARWASH
Entity Title:	Not reported
Affiliation Address:	1639 W FOOTHILL BLVD
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 949-1422
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:	UST Property Owner Name
Entity Name:	PACIFIC CARWASH
Entity Title:	Not reported
Affiliation Address:	1639 W. FOOTHILL BLVD.
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 949-1422
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1639 WEST FOOTHILL BLVD
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	MIKE CHOO
Entity Title:	Not reported
Affiliation Address:	1639 FOOTHILL BLVD
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 949-1422
Affiliation Type Desc:	Parent Corporation
Entity Name:	PACIFIC CAR WASH

CABLE CAR WASH (Continued) **S105698409**

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:	Dianne Fowler
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:	MIKE CHOO
Entity Title:	Not reported
Affiliation Address:	1639 W FOOTHILL BLVD
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	MIKE CHOO
Entity Title:	OWNER / OPERATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 949-1422
Affiliation Type Desc:	UST Tank Operator
Entity Name:	MIKE CHOO
Entity Title:	Not reported
Affiliation Address:	1639 W. FOOTHILL BLVD.
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 949-1422
Affiliation Type Desc:	UST Tank Owner
Entity Name:	PACIFIC CARWASH
Entity Title:	Not reported
Affiliation Address:	1639 W. FOOTHILL BLVD.
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 949-1422

M91 **CHOOS ENERGY INC DBA PACIFIC CAR WASH** **RCRA NonGen / NLR** **1024819522**
ENE **1639 W FOOTHILL BLVD** **CAL000329841**
1/8-1/4 **UPLAND, CA 91786**
0.166 mi.
876 ft. **Site 3 of 3 in cluster M**

Relative:
Higher

Actual:
1361 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2008-02-20 00:00:00.0
Handler Name:	CHOOS ENERGY INC DBA PACIFIC CAR WASH
Handler Address:	1639 W FOOTHILL BLVD
Handler City,State,Zip:	UPLAND, CA 91786-3533
EPA ID:	CAL000329841
Contact Name:	MIKE CHOO
Contact Address:	1639 W FOOTHILL BLVD
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	213-458-9499
Contact Fax:	909-949-6551
Contact Email:	CCCHOOM@GMAIL.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:	1639 W FOOTHILL BLVD
Mailing City,State,Zip:	UPLAND, CA 91786-3533
Owner Name:	CHOOS ENERGY INC
Owner Type:	Other
Operator Name:	MIKE CHOO
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

CHOOS ENERGY INC DBA PACIFIC CAR WASH (Continued) **1024819522**

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 20:30:06.0
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:	MIKE CHOO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1639 W FOOTHILL BLVD
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	213-458-9499
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CHOOS ENERGY INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1639 W FOOTHILL BLVD
Owner/Operator City,State,Zip:	UPLAND, CA 91786-3533
Owner/Operator Telephone:	909-949-1422
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

CHOOS ENERGY INC DBA PACIFIC CAR WASH (Continued) **1024819522**

Historic Generators:
- Receive Date: 2008-02-20 00:00:00.0
- Handler Name: CHOOS ENERGY INC DBA PACIFIC CAR WASH
- 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: 44719
- NAICS Description: OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

J92 **A FOOTHILL AUTO SERVICE** **RCRA NonGen / NLR** **1024793912**
East **939 N BENSON AVE** **CAL000143943**
1/8-1/4 **UPLAND, CA 91786**
0.173 mi.
916 ft. **Site 2 of 4 in cluster J**

Relative: **Lower**

Actual: **1340 ft.**

RCRA NonGen / NLR:
- Date Form Received by Agency: 1996-05-28 00:00:00.0
- Handler Name: A FOOTHILL AUTO SERVICE
- Handler Address: 939 N BENSON AVE
- Handler City,State,Zip: UPLAND, CA 91786-3549
- EPA ID: CAL000143943
- Contact Name: PATRICK VAN DUSEN
- Contact Address: 939 N BENSON AVE
- Contact City,State,Zip: UPLAND, CA 91786
- Contact Telephone: 909-981-8210
- Contact Fax: 000-000-0000
- Contact Email: DTSC@PACIFICMGT.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: 939 N BENSON AVE
- Mailing City,State,Zip: UPLAND, CA 91786-3549
- Owner Name: PATRICK VAN DUSEN, INC.

A FOOTHILL AUTO SERVICE (Continued) **1024793912**

Owner Type:	Other
Operator Name:	PATRICK VAN DUSEN
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:	2018-09-05 15:43:12.0
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

A FOOTHILL AUTO SERVICE (Continued) **1024793912**

Sub-Part P Indicator: No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PATRICK VAN DUSEN, INC.
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	939 N BENSON AVE
Owner/Operator City,State,Zip:	UPLAND, CA 91786-3549
Owner/Operator Telephone:	909-981-8210
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	PATRICK VAN DUSEN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	939 N BENSON AVE
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-981-8210
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1996-05-28 00:00:00.0
Handler Name: A FOOTHILL 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:	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

J93 **A FOOTHILL AUTO SERVICE** **CERS HAZ WASTE** **S102042391**
East **939 N BENSON AVE** **HAZNET** **N/A**
1/8-1/4 **UPLAND, CA 91786** **San Bern. Co. Permit**
0.173 mi. **CERS**
916 ft. **Site 3 of 4 in cluster J** **HWTS**

Relative:
Lower

Actual:
1340 ft.

CERS HAZ WASTE:
Name: A FOOTHILL AUTO SERVICE
Address: 939 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Site ID: 2099
CERS ID: 10034137
CERS Description: Hazardous Waste Generator

HAZNET:
Name: A FOOTHILL AUTO SERVICE
Address: 939 N BENSON AVE
Address 2: Not reported
City,State,Zip: UPLAND, CA 917863549
Contact: PATRICK VAN DUSEN
Telephone: 9099818210
Mailing Name: Not reported
Mailing Address: 939 N BENSON AVE

Year: 2018
Gepaid: CAL000143943
TSD EPA ID: AZR000520304
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05000

Year: 2012
Gepaid: CAL000143943
TSD EPA ID: CAT080013352
CA Waste Code: 222 - Oil/water separation sludge
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.4587

Year: 2003
Gepaid: CAL000143943
TSD EPA ID: CAD099452708
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 0.8757

Year: 2003
Gepaid: CAL000143943
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 1.045

Year: 2002
Gepaid: CAL000143943
TSD EPA ID: CAD099452708
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

Tons:	0.834
Year:	1996
Gepaid:	CAL000143943
TSD EPA ID:	CAT080025711
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	R01 - Recycler
Tons:	1.2432
Year:	1996
Gepaid:	CAL000143943
TSD EPA ID:	CAT080025711
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	R01 - Recycler
Tons:	0.8854

Additional Info:

Year:	1996
Gen EPA ID:	CAL000143943
Shipment Date:	19961230
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961231
Manifest ID:	96393744
Trans EPA ID:	CA0000001818
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:	0.8854
Waste Quantity:	233
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:	19961230
Creation Date:	5/20/1997 0:00:00
Receipt Date:	19961231
Manifest ID:	96393744
Trans EPA ID:	CA0000001818
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

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.672
Waste Quantity:	160
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:	19960625
Creation Date:	5/30/1997 0:00:00
Receipt Date:	19960626
Manifest ID:	95911050
Trans EPA ID:	CA0000001818
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:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.5712
Waste Quantity:	136
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:	2012
Gen EPA ID:	CAL000143943
Shipment Date:	20120224
Creation Date:	4/30/2012 20:30:14
Receipt Date:	20120307
Manifest ID:	009571999JJK
Trans EPA ID:	CAD028277036
Trans Name:	ASBURY ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO / KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

Quantity Tons:	0.4587
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

Additional Info:

Year:	2003
Gen EPA ID:	CAL000143943
Shipment Date:	20031031
Creation Date:	8/5/2004 10:07:02
Receipt Date:	20031113
Manifest ID:	22422152
Trans EPA ID:	CAR000111286
Trans Name:	GOLDEN STATE ENVIRONMENTAL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.8757
Waste Quantity:	210
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:	20030422
Creation Date:	7/13/2003 18:31:11
Receipt Date:	20030423
Manifest ID:	20482368
Trans EPA ID:	CAD982442188
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
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.045
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2002
Gen EPA ID: CAL000143943

Shipment Date: 20020828
Creation Date: 1/31/2003 15:02:08
Receipt Date: 20020829
Manifest ID: 21820034
Trans EPA ID: CAR000111286
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: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: Not reported
Meth Code: R01 - Recycler
Quantity Tons: 0.834
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

San Bern. Co. Permit:
Name: A FOOTHILL AUTO SERVICE
Address: 939 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000051
Owner: Patrick Van Dusen, Inc.
Permit Number: PT0008108
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2020

Name: A FOOTHILL AUTO SERVICE
Address: 939 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000051
Owner: Patrick Van Dusen, Inc.
Permit Number: PT0008109
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 11/30/2020

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

CERS:
Name: A FOOTHILL AUTO SERVICE
Address: 939 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Site ID: 2099
CERS ID: 10034137
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 2099
Site Name: A FOOTHILL AUTO SERVICE
Violation Date: 02-08-2016
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 03/16/2016. UPDATE CERS TO MATCH CURRENT INVENTORY OBSERVED ON SITE.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 2099
Site Name: A FOOTHILL AUTO SERVICE
Violation Date: 02-08-2016
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 03/16/2016. MISSING ACCUMULATION START DATES.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 2099
Site Name: A FOOTHILL AUTO SERVICE
Violation Date: 02-08-2016
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 03/16/2016. Failure to manage hazardous waste lawfully (CHSC 25154) OBSERVED UNLABELED DRUMS.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 2099
Site Name: A FOOTHILL AUTO SERVICE
Violation Date: 11-30-2018
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
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 02/22/2019. OBSERVATION: The hazardous materials inventory submitted to CERS is not consistent with what was

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

observed at time of inspection. 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: 2099
Site Name: A FOOTHILL AUTO SERVICE
Violation Date: 02-08-2016
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 03/16/2016. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) LABEL INCOMPLETE ON USED OIL, COOLANT, WASTE PAINT, AND PARTS WASHER WASTE.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 2099
Site Name: A FOOTHILL AUTO SERVICE
Violation Date: 02-08-2016
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 03/16/2016. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) LABEL MISSING ON USED OIL, COOLANT, WASTE PAINT, AND PARTS WASHER WASTE.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 2099
Site Name: A FOOTHILL AUTO SERVICE
Violation Date: 02-08-2016
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 03/16/2016. Hazardous waste accumulation time exceeded (CCR 66262.34(a)) TIME EXCEEDED ON USED OIL AND COOLANT.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 2099
Site Name: A FOOTHILL AUTO SERVICE
Violation Date: 02-08-2016
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 03/16/2016. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) START DATES MISSING ON USED OIL, COOLANT, WASTE PAINT, AND PARTS WASHER WASTE.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-08-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HAZARDOUS MATERIALS INSPECTION FOR A-FOOTHILL AUTO SERVICE
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-08-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HAZARDOUS WASTE GENERATOR INSPECTION FOR A-FOOTHILL AUTO SERVICE
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
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:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2018
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

Enforcement Action:

Site ID:	2099
Site Name:	A FOOTHILL AUTO SERVICE
Site Address:	939 N BENSON AVE
Site City:	UPLAND
Site Zip:	91786
Enf Action Date:	02-08-2016
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:	2099
Site Name:	A FOOTHILL AUTO SERVICE
Site Address:	939 N BENSON AVE
Site City:	UPLAND
Site Zip:	91786

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

Enf Action Date: 02-08-2016
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

Coordinates:
Site ID: 2099
Facility Name: A FOOTHILL AUTO SERVICE
Env Int Type Code: HWG
Program ID: 10034137
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.105640
Longitude: -117.681641

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Patrick VanDusen
Entity Title: President
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: Parent Corporation
Entity Name: A FOOTHILL 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: PACIFIC MANAGEMENT SERVICES
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: Patrick VanDusen
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

Affiliation Zip:	Not reported
Affiliation Phone:	(909) 981-8210
Affiliation Type Desc:	Property Owner
Entity Name:	Patrick VanDusen
Entity Title:	Not reported
Affiliation Address:	939 N Benson Ave
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 981-8210
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:	Environmental Contact
Entity Name:	Patrick VanDusen
Entity Title:	Not reported
Affiliation Address:	939 N Benson Ave
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:	939 N Benson Ave
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Patrick Van Dusen, Inc.
Entity Title:	Not reported
Affiliation Address:	939 N Benson Ave
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 981-8210

HWTS:

Name:	A FOOTHILL AUTO SERVICE
Address:	939 N BENSON AVE

A FOOTHILL AUTO SERVICE (Continued) **S102042391**

Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917863549
EPA ID:	CAL000143943
Inactive Date:	Not reported
Create Date:	05/28/1996
Last Act Date:	08/27/2019
Mailing Name:	Not reported
Mailing Address:	939 N BENSON AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	UPLAND, CA 917863549
Owner Name:	PATRICK VAN DUSEN, INC.
Owner Address:	939 N BENSON AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	UPLAND, CA 917863549
Contact Name:	PATRICK VAN DUSEN
Contact Address:	939 N BENSON AVE
Contact Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786

NAICS:

EPA ID:	CAL000143943
Create Date:	2002-03-14 16:36:28.000
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	1996-05-28 00:00:00
Inactive Date:	Not reported
Facility Name:	A FOOTHILL AUTO SERVICE
Facility Address:	939 N BENSON AVE
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	917863549

K94 **HINSON ENTERPRISES INC DBA HINSON CLUTCH COMPONENT** **RCRA NonGen / NLR** **1024820591**
SE **1630 W 11TH ST UNIT D** **CAL000334221**
1/8-1/4 **UPLAND, CA 91786**
0.174 mi.
920 ft. **Site 4 of 4 in cluster K**

Relative: **Lower**

Actual: **1309 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2008-07-03 00:00:00.0
Handler Name:	HINSON ENTERPRISES INC DBA HINSON CLUTCH COMPONENTS
Handler Address:	1630 W 11TH ST UNIT D
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000334221
Contact Name:	BRYAN HINSON
Contact Address:	1630 W 11TH ST UNIT D
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	909-946-2942
Contact Fax:	000-000-0000
Contact Email:	MIKE@HINSONRACING.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported

HINSON ENTERPRISES INC DBA HINSON CLUTCH COMPONENTS (Continued) **1024820591**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1630 W 11TH ST UNIT D
Mailing City,State,Zip:	UPLAND, CA 91786-0000
Owner Name:	HINSON ENTERPRISES INC
Owner Type:	Other
Operator Name:	BRYAN HINSON
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

HINSON ENTERPRISES INC DBA HINSON CLUTCH COMPONENTS (Continued) **1024820591**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:30:28.0
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:	BRYAN HINSON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1630 W 11TH ST UNIT D
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-946-2942
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HINSON ENTERPRISES INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1630 W 11TH ST UNIT D
Owner/Operator City,State,Zip:	UPLAND, CA 91786-0000
Owner/Operator Telephone:	909-946-2942
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2008-07-03 00:00:00.0
Handler Name:	HINSON ENTERPRISES INC DBA HINSON CLUTCH COMPONENTS
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:

HINSON ENTERPRISES INC DBA HINSON CLUTCH COMPONENTS (Continued) **1024820591**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

N95 **GREEN TECH COLLISION CENTER** **RCRA NonGen / NLR** **1026056120**
South **1800 W 11TH ST UNIT A** **CAL000452307**
1/8-1/4 **UPLAND, CA 91786**
0.181 mi.
954 ft. **Site 1 of 9 in cluster N**

Relative: **Lower**
Actual: **1300 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-01-30 00:00:00.0
Handler Name:	GREEN TECH COLLISION CENTER
Handler Address:	1800 W 11TH ST UNIT A
Handler City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000452307
Contact Name:	ALMA LIRA
Contact Address:	1800 W 11TH ST UNIT A
Contact City,State,Zip:	UPLAND, CA 91786
Contact Telephone:	909-615-4333
Contact Fax:	909-982-2215
Contact Email:	ALMALIRA78@YAHOO.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 W 11TH ST UNIT A
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	ALMA LIRA
Owner Type:	Other
Operator Name:	ALMA LIRA
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:	---

GREEN TECH COLLISION CENTER (Continued) **1026056120**

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:	2020-02-10 17:54:19.0
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:	ALMA LIRA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1800 W 11TH ST UNIT A
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-615-4333
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ALMA LIRA
Legal Status:	Other
Date Became Current:	Not reported

GREEN TECH COLLISION CENTER (Continued) **1026056120**

Date Ended Current: Not reported
Owner/Operator Address: 1800 W 11TH ST UNIT A
Owner/Operator City,State,Zip: UPLAND, CA 91786
Owner/Operator Telephone: 909-615-4333
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2020-01-30 00:00:00.0
Handler Name: GREEN TECH COLLISION CENTER
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

N96 **MIKE'S AUTOMOTIVE** **RCRA NonGen / NLR** **1024809226**
South **1800 W 11TH ST STE B** **CAL000283562**
1/8-1/4 **UPLAND, CA 91786**
0.181 mi.
954 ft. **Site 2 of 9 in cluster N**

Relative: RCRA NonGen / NLR:
Lower Date Form Received by Agency: 2004-06-29 00:00:00.0
Actual: Handler Name: MIKE'S AUTOMOTIVE
1300 ft. Handler Address: 1800 W 11TH ST STE B
Handler City,State,Zip: UPLAND, CA 91786-8438
EPA ID: CAL000283562
Contact Name: MICHEAL LINDSTROM
Contact Address: 1800 W 11TH ST STE B
Contact City,State,Zip: UPLAND, CA 91786
Contact Telephone: 909-373-3040
Contact Fax: 909-985-0660
Contact Email: MIKESAUTO.UPLAND@GMAIL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported

MIKE'S AUTOMOTIVE (Continued) **1024809226**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	1800 W 11TH ST STE B
Mailing City,State,Zip:	UPLAND, CA 91786-8438
Owner Name:	MICHEAL LINDSTROM
Owner Type:	Other
Operator Name:	MICHEAL LINDSTROM
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

MIKE'S AUTOMOTIVE (Continued) **1024809226**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:25:49.0
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:	MICHEAL LINDSTROM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1800 W 11TH ST STE B
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-373-3040
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MICHEAL LINDSTROM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1800 W 11TH ST STE B
Owner/Operator City,State,Zip:	UPLAND, CA 91786-8438
Owner/Operator Telephone:	909-373-3040
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2004-06-29 00:00:00.0
Handler Name: MIKE'S AUTOMOTIVE	
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:

MIKE'S AUTOMOTIVE (Continued) **1024809226**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

N97 **GREEN TECH COLLISION CENTER** **San Bern. Co. Permit** **S125937903**
South **1800 W 11 TH STE A** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.181 mi.
954 ft. **Site 3 of 9 in cluster N**

Relative:
Lower

Actual:
1300 ft.

San Bern. Co. Permit:
Name: GREEN TECH COLLISION CENTER
Address: 1800 W 11 TH STE A
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0018481
Owner: GODINA, RAYMOND
Permit Number: PT0039936
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 02/28/2021

N98 **MIKE'S AUTOMOTIVE** **CERS HAZ WASTE** **S122499366**
South **1800 W 11 TH STE B** **San Bern. Co. Permit** **N/A**
1/8-1/4 **UPLAND, CA 91786** **CERS**
0.181 mi.
954 ft. **Site 4 of 9 in cluster N**

Relative:
Lower

Actual:
1300 ft.

CERS HAZ WASTE:
Name: MIKE'S AUTOMOTIVE
Address: 1800 W 11 TH ST STE B
City,State,Zip: UPLAND, CA 91786
Site ID: 49053
CERS ID: 10048612
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: MIKE'S AUTOMOTIVE
Address: 1800 W 11 TH STE B
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0008439
Owner: LINDSTROM, MICHAEL A.
Permit Number: PT0015075
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2020

Name: MIKE'S AUTOMOTIVE
Address: 1800 W 11 TH STE B
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0008439

MIKE'S AUTOMOTIVE (Continued) **S122499366**

Owner: LINDSTROM, MICHAEL A.
Permit Number: PT0015076
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2020

CERS:
Name: MIKE'S AUTOMOTIVE
Address: 1800 W 11 TH ST STE B
City,State,Zip: UPLAND, CA 91786
Site ID: 49053
CERS ID: 10048612
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 49053
Site Name: MIKE'S AUTOMOTIVE
Violation Date: 04-05-2017
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 04/05/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-25-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: MIKES INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-25-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: MIKES INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-05-2017
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: 04-05-2017

MIKE'S AUTOMOTIVE (Continued) **S122499366**

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: 05-28-2020
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: 05-28-2020
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

Enforcement Action:
Site ID: 49053
Site Name: MIKE'S AUTOMOTIVE
Site Address: 1800 W 11 TH ST STE B
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-05-2017
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: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: MICHAEL LINDSTROM
Entity Title: Not reported
Affiliation Address: 1800 W. 11TH ST. #B
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: LINDSTROM, MICHAEL A.
Entity Title: Not reported
Affiliation Address: 605 GLENWOOD WAY
Affiliation City: UPLAND
Affiliation State: CA

MIKE'S AUTOMOTIVE (Continued) **S122499366**

Affiliation Country:	United States
Affiliation Zip:	91786-5008
Affiliation Phone:	(909) 472-5132
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:	Operator
Entity Name:	MICHAEL LINDSTROM
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) 373-3040
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1800 WEST 11TH STREET, STE. 'B'
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	MIKE'S AUTOMOTIVE
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

I99 **AL & LEE'S AUTO CARE CTR** **San Bern. Co. Permit** **S104763400**
SSW **1830 W 11TH ST A&B** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.181 mi.
955 ft. **Site 22 of 22 in cluster I**

Relative: San Bern. Co. Permit:
Lower

Name:	AL & LEE'S AUTO CARE CTR
Address:	1830 W 11TH ST A&B
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0000794
Owner:	PERLMAN, LEE J

Actual:
1300 ft.

AL & LEE'S AUTO CARE CTR (Continued) **S104763400**

Permit Number: PT0002978
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 08/31/2020

Name: AL & LEE'S AUTO CARE CTR
Address: 1830 W 11TH ST A&B
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0000794
Owner: PERLMAN, LEE J
Permit Number: PT0002979
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 08/31/2020

J100 **JADE CONTROLS** **RCRA-LQG** **1007198793**
East **959 N. BENSON AVENUE** **CAD009661174**
1/8-1/4 **UPLAND, CA 91786**
0.182 mi.
963 ft. **Site 4 of 4 in cluster J**

Relative: **Higher**

Actual: **1344 ft.**

RCRA-LQG:

Date Form Received by Agency:		1992-01-31 00:00:00.0
Handler Name:	JADE CONTROLS	
Handler Address:		959 N. BENSON AVENUE
Handler City,State,Zip:		UPLAND, CA 91786-3549
EPA ID:		CAD009661174
Contact Name:		ROBERT L TWEDDLE
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		314-577-5244
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not reported
Non-Notifier:		Not reported
Biennial Report Cycle:		1991
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		9797 REAVIS ROAD
Mailing City,State,Zip:		ST. LOUIS, MO 63123-5329
Owner Name:		Not reported
Owner Type:		Not reported
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		Not reported
Importer Activity:		Not reported
Mixed Waste Generator:		Not reported
Transporter Activity:		Not reported
Transfer Facility Activity:		Not reported
Recycler Activity with Storage:		Not reported
Small Quantity On-Site Burner Exemption:		Not reported
Smelting Melting and Refining Furnace Exemption:		Not reported

JADE CONTROLS (Continued) **1007198793**

Underground Injection Control:	Not reported
Off-Site Waste Receipt:	Not reported
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:	2014-09-16 00:00:00.0
Recognized Trader-Importer:	Not reported
Recognized Trader-Exporter:	Not reported
Importer of Spent Lead Acid Batteries:	Not reported
Exporter of Spent Lead Acid Batteries:	Not reported
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	Not reported

Historic Generators:

Receive Date:	1992-01-31 00:00:00.0
Handler Name: JADE CONTROLS	
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

JADE CONTROLS (Continued) **1007198793**

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: 334512
NAICS Description: AUTOMATIC ENVIRONMENTAL CONTROL MANUFACTURING FOR RESIDENTIAL, COMMERCIAL, AND APPLIANCE USE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

L101 **WALTON FABRICATION** **San Bern. Co. Permit** **S105298576**
SW **1933 W 11TH ST UNIT H** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.184 mi.
971 ft. **Site 2 of 6 in cluster L**

Relative:
Lower

Actual:
1308 ft.

San Bern. Co. Permit:
Name: WALTON FABRICATION
Address: 1933 W 11TH ST UNIT H
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006699
Owner: WALTON, TODD
Permit Number: PT0001154
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 02/28/2014

L102 **CJ MEDIA** **San Bern. Co. Permit** **S110496958**
SW **1933 W 11TH ST UNIT K** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.184 mi.
971 ft. **Site 3 of 6 in cluster L**

Relative:
Lower

Actual:
1308 ft.

San Bern. Co. Permit:
Name: CJ MEDIA
Address: 1933 W 11TH ST UNIT K
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0013395
Owner: JACOBS, CHRIS
Permit Number: PT0023609
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 09/30/2013

L103 **KENGRAPHICS PRINTING** **San Bern. Co. Permit** **S104767548**
SW **1935 W 11TH ST A** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.189 mi.
996 ft. **Site 4 of 6 in cluster L**

Relative: San Bern. Co. Permit:
Lower
Name: KENGRAPHICS PRINTING
Actual: Address: 1935 W 11TH ST A
1307 ft. City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004243
Owner: LEMMON, ROBERT K.
Permit Number: PT0008159
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 11/30/2015

Name: KENGRAPHICS PRINTING
Address: 1935 W 11TH ST A
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004243
Owner: LEMMON, ROBERT K.
Permit Number: PT0019663
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES (W/GEN PRMT)
Facility Status: INACTIVE
Expiration Date: 11/30/2007

L104 **ACE ENGINEERING** **RCRA NonGen / NLR** **1024822835**
SW **1937 W 11TH ST STE C** **CAL000341889**
1/8-1/4 **UPLAND, CA 91786**
0.192 mi.
1012 ft. **Site 5 of 6 in cluster L**

Relative: RCRA NonGen / NLR:
Lower
Date Form Received by Agency: 2009-04-06 00:00:00.0
Actual: Handler Name: ACE ENGINEERING
1307 ft. Handler Address: 1937 W 11TH ST STE C
Handler City,State,Zip: UPLAND, CA 91786-3556
EPA ID: CAL000341889
Contact Name: ANTONIO VITELA
Contact Address: 1937 W 11TH ST STE C
Contact City,State,Zip: UPLAND, CA 91786-3556
Contact Telephone: 909-985-7236
Contact Fax: 909-985-7246
Contact Email: ACE_ENGINEERING-@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: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 1937 W 11TH ST STE C
Mailing City,State,Zip: UPLAND, CA 91786-3556
Owner Name: ANTONIO VITELA

ACE ENGINEERING (Continued) **1024822835**

Owner Type:	Other
Operator Name:	ANTONIO VITELA
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 19:35:01.0
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

ACE ENGINEERING (Continued) **1024822835**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: ANTONIO VITELA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1937 W 11TH ST STE C
Owner/Operator City,State,Zip: UPLAND, CA 91786-3556
Owner/Operator Telephone: 909-985-7236
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ANTONIO VITELA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1937 W 11TH ST STE C
Owner/Operator City,State,Zip: UPLAND, CA 91786-3556
Owner/Operator Telephone: 909-985-7236
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2009-04-06 00:00:00.0
Handler Name: ACE ENGINEERING
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

L105 **CALAWAY & BROOKS INC** **CERS HAZ WASTE** **S108087230**
SW **1937 W 11TH ST STE F** **HAZNET** **N/A**
1/8-1/4 **UPLAND, CA 91786** **San Bern. Co. Permit**
0.192 mi. **CERS**
1012 ft. **Site 6 of 6 in cluster L** **HWTS**

Relative:
Lower

Actual:
1307 ft.

CERS HAZ WASTE:
Name: ACE ENGINEERING
Address: 1937 W 11TH ST STE C
City,State,Zip: UPLAND, CA 91786
Site ID: 89510
CERS ID: 10051540
CERS Description: Hazardous Waste Generator

HAZNET:
Name: CALAWAY & BROOKS INC
Address: 1937 W 11TH ST STE F
Address 2: Not reported
City,State,Zip: UPLAND, CA 91786
Contact: WARD CALAWAY
Telephone: 9099810131
Mailing Name: Not reported
Mailing Address: 1937 W 11TH ST STE F

Year: 2016
Gepaid: CAL000308752
TSD EPA ID: NED981723513
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.175

San Bern. Co. Permit:
Name: ACE ENGINEERING
Address: 1937 W 11TH ST STE C
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0010633
Owner: VITELA, ANTONIO
Permit Number: PT0018105
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 09/30/2020

Name: ACE ENGINEERING
Address: 1937 W 11TH ST STE C
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0010633
Owner: VITELA, ANTONIO
Permit Number: PT0021490
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 09/30/2016

CERS:
Name: ACE ENGINEERING
Address: 1937 W 11TH ST STE C

CALAWAY & BROOKS INC (Continued) **S108087230**

City,State,Zip: UPLAND, CA 91786
Site ID: 89510
CERS ID: 10051540
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 89510
Site Name: ACE ENGINEERING
Violation Date: 12-01-2015
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 01/12/2016. The CERS business plan was last submitted on May 14, 2014.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 89510
Site Name: ACE ENGINEERING
Violation Date: 08-07-2018
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 11/19/2018. OBSERVATION: At time of inspection, the EPA ID number for this facility was inactive. CORRECTIVE ACTION: Obtain a permanent EPA ID number by submitting form 1358 to DTSC. Submit a signed statement indicating that a valid EPA ID number has been obtained.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-07-2018
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: 12-01-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ace engineering inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2015

CALAWAY & BROOKS INC (Continued) **S108087230**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Ace engineering inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 89510
Site Name: ACE ENGINEERING
Site Address: 1937 W 11TH ST STE C
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 12-01-2015
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

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1937 WEST 11TH STREET, STE. C
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: Operator
Entity Name: ANTONIO VITELA
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) 985-7236

Affiliation Type Desc: Document Preparer
Entity Name: DAVID LOUGHEED
Entity Title: Not reported
Affiliation Address: Not reported

CALAWAY & BROOKS INC (Continued) **S108087230**

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:	ANTONIO VITELA
Entity Title:	Not reported
Affiliation Address:	1937 WEST 11TH STREET, STE C
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	VITELA, ANTONIO
Entity Title:	Not reported
Affiliation Address:	1937 West 11th Street, Suite C
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 985-7236

Affiliation Type Desc:	Parent Corporation
Entity Name:	Ace Engineering
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:	DAVID LOUGHEED
Entity Title:	ACCOUNTANT
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HWTS:

Name:	ACE ENGINEERING
Address:	1937 W 11TH ST STE C
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917863556
EPA ID:	CAL000341889
Inactive Date:	Not reported
Create Date:	04/06/2009
Last Act Date:	09/06/2018
Mailing Name:	Not reported

CALAWAY & BROOKS INC (Continued) **S108087230**

Mailing Address: 1937 W 11TH ST STE C
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 917863556
Owner Name: ANTONIO VITELA
Owner Address: 1937 W 11TH ST STE C
Owner Address 2: Not reported
Owner City,State,Zip: UPLAND, CA 917863556
Contact Name: ANTONIO VITELA
Contact Address: 1937 W 11TH ST STE C
Contact Address 2: Not reported
City,State,Zip: UPLAND, CA 917863556

NAICS:
EPA ID: CAL000341889
Create Date: 2009-04-06 13:56:42.257
NAICS Code: 336399
NAICS Description: All Other Motor Vehicle Parts Manufacturing
Issued EPA ID Date: 2009-04-06 13:56:42.25700
Inactive Date: Not reported
Facility Name: ACE ENGINEERING
Facility Address: 1937 W 11TH ST STE C
Facility Address 2: Not reported
Facility City: UPLAND
Facility County: Not reported
Facility State: CA
Facility Zip: 917863556

Name: CALAWAY & BROOKS INC
Address: 1937 W 11TH ST STE F
Address 2: Not reported
City,State,Zip: UPLAND, CA 91786
EPA ID: CAL000308752
Inactive Date: 06/30/2008
Create Date: 07/06/2006
Last Act Date: 04/23/2009
Mailing Name: Not reported
Mailing Address: 1937 W 11TH ST STE F
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 917863556
Owner Name: CALAWAY & BROOKS INC
Owner Address: 1937 W 11TH ST STE F
Owner Address 2: Not reported
Owner City,State,Zip: UPLAND, CA 917863556
Contact Name: WARD CALAWAY
Contact Address: 1937 W 11TH ST STE F
Contact Address 2: Not reported
City,State,Zip: UPLAND, CA 91786

NAICS:
EPA ID: CAL000308752
Create Date: 2006-07-06 14:06:07.347
NAICS Code: 339112
NAICS Description: Surgical and Medical Instrument Manufacturing
Issued EPA ID Date: 2006-07-06 14:06:07.31700
Inactive Date: 2008-06-30 00:00:00
Facility Name: CALAWAY & BROOKS INC
Facility Address: 1937 W 11TH ST STE F

CALAWAY & BROOKS INC (Continued) **S108087230**

Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91786

O106 **LOWE'S OF UPLAND #1041** **RCRA-SQG** **1024089913**
NE **1659 W FOOTHILL BLVD** **CAR000279695**
1/8-1/4 **UPLAND, CA 91786**
0.193 mi.
1021 ft. **Site 1 of 4 in cluster O**

Relative: RCRA-SQG:
Higher

Actual: Date Form Received by Agency:		2020-11-04 00:00:00.0
1381 ft. Handler Name:	LOWE'S OF UPLAND #1041	
Handler Address:		1659 W FOOTHILL BLVD
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAR000279695
Contact Name:		BOBBI TENBORG
Contact Address:		LOWES BLVD.
Contact City,State,Zip:		MOORESVILLE, NC 28117
Contact Telephone:		704-758-2955
Contact Fax:		877-658-9885
Contact Email:		BOBBI.L.TENBORG@LOWES.COM
Contact Title:		ENVIRONMENTAL COMPLIANCE SUPERVISOR
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:		LOWES BLVD.
Mailing City,State,Zip:		MOORESVILLE, NC 28117
Owner Name:		LOWE'S HOME CENTERS, LLC
Owner Type:		Private
Operator Name:		LOWE'S HOME CENTERS, LLC
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:		---

LOWE'S OF UPLAND #1041 (Continued) **1024089913**

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:	2020-11-12 16:10:30.0
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

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D004
Waste Description:	ARSENIC
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM
Waste Code:	D007

LOWE'S OF UPLAND #1041 (Continued) **1024089913**

Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D011
Waste Description: SILVER

Waste Code: D016
Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D027
Waste Description: 1,4-DICHLOROBENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U072
Waste Description: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

Waste Code: U134
Waste Description: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U159
Waste Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

Waste Code: U165
Waste Description: NAPHTHALENE

Waste Code: U210
Waste Description: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

Waste Code: U240
Waste Description: 2,4-D, SALTS & ESTERS (OR) ACETIC ACID, (2,4-DICHLOROPHENOXY)-, SALTS & ESTERS (OR) DICHLOROPHENOXYACETIC ACID 2,4-D

Waste Code: U249
Waste Description: ZINC PHOSPHIDE ZN3P2, WHEN PRESENT AT CONCENTRATIONS OF 10% OR LESS

Waste Code: U279
Waste Description: U279

LOWE'S OF UPLAND #1041 (Continued) **1024089913**

Waste Code: U411
Waste Description: U411

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: LOWE'S HOME CENTERS, LLC
Legal Status: Private
Date Became Current: 2001-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1000 LOWES BLVD.
Owner/Operator City,State,Zip: MOORESVILLE, NC 28117
Owner/Operator Telephone: 704-758-2955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: 877-658-9885
Owner/Operator Email: BOBBI.L.TENBORG@LOWES.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: LOWE'S HOME CENTERS, LLC
Legal Status: Private
Date Became Current: 2001-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1000 LOWES BLVD.
Owner/Operator City,State,Zip: MOORESVILLE, NC 28117
Owner/Operator Telephone: 704-758-2955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: 877-658-9885
Owner/Operator Email: BOBBI.L.TENBORG@LOWES.COM

Owner/Operator Indicator: Owner
Owner/Operator Name: LOWE'S HOME CENTERS, LLC
Legal Status: Private
Date Became Current: 2001-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1605 CURTIS BRIDGE RD
Owner/Operator City,State,Zip: WILKESBORO, NC 28697
Owner/Operator Telephone: 704-758-2955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: 877-658-9885
Owner/Operator Email: BOBBI.L.TENBORG@LOWES.COM

Owner/Operator Indicator: Operator
Owner/Operator Name: LOWE'S HOME CENTERS, LLC
Legal Status: Private
Date Became Current: 2001-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1605 CURTIS BRIDGE RD
Owner/Operator City,State,Zip: WILKESBORO, NC 28697
Owner/Operator Telephone: 704-758-2955
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: 877-658-9885
Owner/Operator Email: BOBBI.L.TENBORG@LOWES.COM

Historic Generators:
Receive Date: 2017-12-26 00:00:00.0
Handler Name: LOWE'S OF UPLAND #1041
Federal Waste Generator Description: Small Quantity Generator

LOWE'S OF UPLAND #1041 (Continued) **1024089913**

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:	2020-11-04 00:00:00.0
Handler Name: LOWE'S OF UPLAND #1041	
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:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	444110
NAICS Description:	HOME CENTERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

O107 **LOWES #1041** **CERS HAZ WASTE** **S113118034**
NE **1659 W FOOTHILL BLVD** **CERS TANKS** **N/A**
1/8-1/4 **UPLAND, CA 91786** **HAZNET**
0.193 mi. **San Bern. Co. Permit**
1021 ft. **Site 2 of 4 in cluster O** **CERS**
HWTS

Relative:
Higher

Actual:
1381 ft.

CERS HAZ WASTE:

Name:	LOWE'S #1041
Address:	1659 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Site ID:	131596
CERS ID:	10053421
CERS Description:	Hazardous Waste Generator

CERS TANKS:

Name:	LOWE'S #1041
Address:	1659 W FOOTHILL BLVD
City,State,Zip:	UPLAND, CA 91786
Site ID:	131596
CERS ID:	10053421
CERS Description:	Aboveground Petroleum Storage

LOWES #1041 (Continued) **S113118034**

HAZNET:

Name:	LOWE'S OF UPLAND #1041
Address:	1659 W FOOTHILL BLVD
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 281170000
Contact:	ROB GASS
Telephone:	7047586033
Mailing Name:	Not reported
Mailing Address:	1000 LOWE'S BLVD
Year:	2019
Gepaid:	CAR000279695
TSD EPA ID:	NVD980895338
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.12000
Year:	2019
Gepaid:	CAR000279695
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.45950
Year:	2019
Gepaid:	CAR000279695
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.01150
Year:	2018
Gepaid:	CAL000248314
TSD EPA ID:	CAD008364432
CA Waste Code:	331 - Off-specification, aged or surplus organics
Disposal Method:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.00250
Year:	2018
Gepaid:	CAR000279695
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00750
Year:	2018
Gepaid:	CAL000248314
TSD EPA ID:	CAD008364432
CA Waste Code:	122 - Alkaline solution without metals pH >= 12.5
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.00650

LOWES #1041 (Continued) **S113118034**

Year: 2018
Gepaid: CAR000279695
TSD EPA ID: CAD008364432
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.32300

Year: 2018
Gepaid: CAR000279695
TSD EPA ID: NVD980895338
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.17550

Year: 2018
Gepaid: CAL000248314
TSD EPA ID: CAD008364432
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.09100

Year: 2017
Gepaid: CAL000248314
TSD EPA ID: CAD008364432
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.7645

Click this hyperlink while viewing on your computer to access
64 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:
Year: 2011
Gen EPA ID: CAL000248314

Shipment Date: 20111108
Creation Date: 7/19/2012 22:00:18
Receipt Date: 20111111
Manifest ID: 008983892JJK
Trans EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
Trans 2 EPA ID: CAD983649880
Trans 2 Name: PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID: CAD008364432
Trans Name: RHO CHEM LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: Not reported

LOWES #1041 (Continued) **S113118034**

Waste Quantity:	Not reported
Quantity Unit:	Not reported
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:	20111108
Creation Date:	7/19/2012 22:00:18
Receipt Date:	20111111
Manifest ID:	008983892JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
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:	20111108
Creation Date:	7/19/2012 22:00:18
Receipt Date:	20111111
Manifest ID:	008983892JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.407
Waste Quantity:	814
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D007
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported

LOWES #1041 (Continued) **S113118034**

Shipment Date:	20111108
Creation Date:	7/19/2012 22:00:18
Receipt Date:	20111111
Manifest ID:	008983892JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
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:	20111108
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008983892JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	49
Quantity Unit:	E
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:	20111108
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008983892JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880

LOWES #1041 (Continued) **S113118034**

Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H077 - Other Chemical Precipitation With Or Without Pre-Treatment
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
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:	20111108
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008983892JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H077 - Other Chemical Precipitation With Or Without Pre-Treatment
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
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:	20111108
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008983892JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

LOWES #1041 (Continued) **S113118034**

Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
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:	20111108
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008983892JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
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:	20111108
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	008983892JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LOWES #1041 (Continued) **S113118034**

Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAL000248314
Shipment Date:	20041206
Creation Date:	2/17/2005 18:31:05
Receipt Date:	20041206
Manifest ID:	23786026
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.07
Waste Quantity:	140
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:	20041206
Creation Date:	2/17/2005 18:31:05
Receipt Date:	20041206
Manifest ID:	23786026
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0075
Waste Quantity:	15
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:	20041206
Creation Date:	2/17/2005 18:31:05
Receipt Date:	20041206

LOWES #1041 (Continued) **S113118034**

Manifest ID:	23786026
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0075
Waste Quantity:	15
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:	20041206
Creation Date:	2/17/2005 18:31:05
Receipt Date:	20041206
Manifest ID:	23786026
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	NA
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.0075
Waste Quantity:	15
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:	20040316
Creation Date:	8/23/2004 8:25:08
Receipt Date:	20040316
Manifest ID:	22795128
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported

LOWES #1041 (Continued) **S113118034**

Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.06
Waste Quantity:	120
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:	20040316
Creation Date:	8/23/2004 8:25:08
Receipt Date:	20040316
Manifest ID:	22795128
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.21
Waste Quantity:	420
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:	20040316
Creation Date:	8/23/2004 8:25:08
Receipt Date:	20040316
Manifest ID:	22795128
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
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

LOWES #1041 (Continued) **S113118034**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040316
Creation Date:	10/1/2004 18:31:09
Receipt Date:	20040402
Manifest ID:	22786078
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM
Trans 2 EPA ID:	CAT000624247
Trans 2 Name:	MP ENVIRONMENTAL
TSDF EPA ID:	WAD991281767
Trans Name:	BEI
TSDF Alt EPA ID:	WAD991281767
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D001
Meth Code:	T03 - Treatment, Incineration
Quantity Tons:	0.0125
Waste Quantity:	25
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

Additional Info:

Year:	2012
Gen EPA ID:	CAL000248314
Shipment Date:	20121121
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000412886PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.04
Waste Quantity:	80
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:	20121121

LOWES #1041 (Continued) **S113118034**

Creation Date:	3/1/2013 22:15:08
Receipt Date:	20121208
Manifest ID:	000412886PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
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:	20121121
Creation Date:	3/1/2013 22:15:08
Receipt Date:	20121208
Manifest ID:	000412886PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.105
Waste Quantity:	210
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:	20121121
Creation Date:	3/1/2013 22:15:08
Receipt Date:	20121208
Manifest ID:	000412886PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP

LOWES #1041 (Continued) **S113118034**

TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.011
Waste Quantity:	22
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D007
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20121121
Creation Date:	3/1/2013 22:15:08
Receipt Date:	20121208
Manifest ID:	000412886PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121004
Creation Date:	11/28/2012 22:15:41
Receipt Date:	20121009
Manifest ID:	000382480PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

LOWES #1041 (Continued) **S113118034**

Quantity Tons:	0.03
Waste Quantity:	60
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:	20121004
Creation Date:	11/28/2012 22:15:41
Receipt Date:	20121009
Manifest ID:	000382480PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1235
Waste Quantity:	247
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:	20121004
Creation Date:	11/28/2012 22:15:41
Receipt Date:	20121009
Manifest ID:	000382480PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0985
Waste Quantity:	197
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LOWES #1041 (Continued) **S113118034**

Additional Code 5:	Not reported
Shipment Date:	20120816
Creation Date:	10/29/2012 22:15:06
Receipt Date:	20120823
Manifest ID:	000354721PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.001
Waste Quantity:	2
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:	20120816
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000354721PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0225
Waste Quantity:	45
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

Additional Info:

Year:	2003
Gen EPA ID:	CAL000248314
Shipment Date:	20031104

LOWES #1041 (Continued) **S113118034**

Creation Date:	8/9/2004 8:46:09
Receipt Date:	20031104
Manifest ID:	22785008
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.01
Waste Quantity:	20
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:	20031104
Creation Date:	8/9/2004 8:46:09
Receipt Date:	20031104
Manifest ID:	22785008
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.04
Waste Quantity:	80
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:	20031104
Creation Date:	8/9/2004 8:46:09
Receipt Date:	20031104
Manifest ID:	22785008
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION

LOWES #1041 (Continued) **S113118034**

TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.03
Waste Quantity:	60
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:	20031104
Creation Date:	8/9/2004 8:46:09
Receipt Date:	20031104
Manifest ID:	22785008
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.06
Waste Quantity:	120
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:	20030718
Creation Date:	7/23/2004 9:17:32
Receipt Date:	20030718
Manifest ID:	22102487
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported

LOWES #1041 (Continued) **S113118034**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030718
Creation Date:	7/23/2004 9:17:32
Receipt Date:	20030718
Manifest ID:	22102487
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D006
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0375
Waste Quantity:	75
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:	20030718
Creation Date:	7/23/2004 9:17:32
Receipt Date:	20030718
Manifest ID:	22102487
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.01
Waste Quantity:	20
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:	20030718
Creation Date:	7/23/2004 9:17:32
Receipt Date:	20030718
Manifest ID:	22102487

LOWES #1041 (Continued) **S113118034**

Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
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

Additional Info:

Year:	2014
Gen EPA ID:	CAL000248314
Shipment Date:	20141202
Creation Date:	2/6/2015 22:15:22
Receipt Date:	20141204
Manifest ID:	000901705PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.104
Waste Quantity:	208
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:	20141202
Creation Date:	2/6/2015 22:15:22
Receipt Date:	20141204
Manifest ID:	000901705PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP

LOWES #1041 (Continued) **S113118034**

TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1315
Waste Quantity:	263
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:	20141202
Creation Date:	2/6/2015 22:15:22
Receipt Date:	20141204
Manifest ID:	000901705PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0175
Waste Quantity:	35
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20141202
Creation Date:	2/6/2015 22:15:22
Receipt Date:	20141204
Manifest ID:	000901705PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

LOWES #1041 (Continued) **S113118034**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3555
Waste Quantity:	711
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:	20140904
Creation Date:	12/13/2014 22:15:07
Receipt Date:	20140910
Manifest ID:	000841766PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0315
Waste Quantity:	63
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:	20140904
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000841766PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.055
Waste Quantity:	110
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

LOWES #1041 (Continued) **S113118034**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140904
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000841766PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported
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:	20140904
Creation Date:	12/13/2014 22:15:07
Receipt Date:	20140910
Manifest ID:	000841766PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0465
Waste Quantity:	93
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140904
Creation Date:	12/13/2014 22:15:07
Receipt Date:	20140910
Manifest ID:	000841766PSC

LOWES #1041 (Continued) **S113118034**

Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D016
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.071
Waste Quantity:	142
Quantity Unit:	P
Additional Code 1:	D011
Additional Code 2:	D008
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140904
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000841766PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	2.6885
Waste Quantity:	5377
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

Additional Info:

Year:	2015
Gen EPA ID:	CAL000248314
Shipment Date:	20151207
Creation Date:	3/2/2016 22:15:14
Receipt Date:	20151214
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880

LOWES #1041 (Continued) **S113118034**

Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D016
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0735
Waste Quantity:	147
Quantity Unit:	P
Additional Code 1:	D011
Additional Code 2:	D008
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20151207
Creation Date:	3/2/2016 22:15:14
Receipt Date:	20151214
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0675
Waste Quantity:	135
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D007
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported

Shipment Date:	20151207
Creation Date:	3/2/2016 22:15:14
Receipt Date:	20151214
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

LOWES #1041 (Continued) **S113118034**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1625
Waste Quantity:	325
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	3/2/2016 22:15:14
Receipt Date:	20151214
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0345
Waste Quantity:	69
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:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0285
Waste Quantity:	57
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

LOWES #1041 (Continued) **S113118034**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2995
Waste Quantity:	599
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:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
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:	20150914
Creation Date:	11/17/2015 22:15:24
Receipt Date:	20150921
Manifest ID:	001104024PSC

LOWES #1041 (Continued) **S113118034**

Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D016
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0115
Waste Quantity:	23
Quantity Unit:	P
Additional Code 1:	D011
Additional Code 2:	D008
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001104024PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.124
Waste Quantity:	248
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:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001104024PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported

LOWES #1041 (Continued) **S113118034**

TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.024
Waste Quantity:	48
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

Additional Info:

Year:	2016
Gen EPA ID:	CAL000248314
Shipment Date:	20151207
Creation Date:	3/2/2016 22:15:14
Receipt Date:	20151214
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D016
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0735
Waste Quantity:	147
Quantity Unit:	P
Additional Code 1:	D011
Additional Code 2:	D008
Additional Code 3:	D006
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	3/2/2016 22:15:14
Receipt Date:	20151214
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035

LOWES #1041 (Continued) **S113118034**

Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0675
Waste Quantity:	135
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D007
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	3/2/2016 22:15:14
Receipt Date:	20151214
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1625
Waste Quantity:	325
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
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

LOWES #1041 (Continued) **S113118034**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2995
Waste Quantity:	599
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:	20151207
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001155247PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0285
Waste Quantity:	57
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:	20151207
Creation Date:	3/2/2016 22:15:14
Receipt Date:	20151214
Manifest ID:	001155247PSC

LOWES #1041 (Continued) **S113118034**

Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0345
Waste Quantity:	69
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:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001104024PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.124
Waste Quantity:	248
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:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001104024PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported

LOWES #1041 (Continued) **S113118034**

TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.024
Waste Quantity:	48
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:	20150914
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001104024PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0105
Waste Quantity:	21
Quantity Unit:	P
Additional Code 1:	D001
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:	CAL000248314
Shipment Date:	20100607
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000067414MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHOCHEM LLC
Trans 2 EPA ID:	CAD980584510
Trans 2 Name:	PHILIPS SERVICES
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

LOWES #1041 (Continued) **S113118034**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0045
Waste Quantity:	9
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:	20100607
Creation Date:	8/26/2010 18:30:08
Receipt Date:	20100609
Manifest ID:	000067414MWI
Trans EPA ID:	CAD008364432
Trans Name:	RHOCHEM LLC
Trans 2 EPA ID:	CAD980584510
Trans 2 Name:	PHILIPS SERVICES
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D018
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.045
Waste Quantity:	90
Quantity Unit:	P
Additional Code 1:	D001
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20100312
Creation Date:	5/27/2010 18:31:08
Receipt Date:	20100316
Manifest ID:	006909014JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SVCS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.063
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LOWES #1041 (Continued) **S113118034**

Additional Code 5:	Not reported
Shipment Date:	20100312
Creation Date:	5/27/2010 18:31:08
Receipt Date:	20100316
Manifest ID:	006909014JJK
Trans EPA ID:	CAD982413262
Trans Name:	EVERGREEN ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SVCS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.021
Waste Quantity:	5
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:	2013
Gen EPA ID:	CAL000248314
Shipment Date:	20131105
Creation Date:	12/27/2013 22:15:22
Receipt Date:	20131119
Manifest ID:	000617324PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0235
Waste Quantity:	47
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131105

LOWES #1041 (Continued) **S113118034**

Creation Date:	12/27/2013 22:15:22
Receipt Date:	20131119
Manifest ID:	000617324PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1375
Waste Quantity:	275
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:	20131105
Creation Date:	12/27/2013 22:15:22
Receipt Date:	20131119
Manifest ID:	000617324PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0365
Waste Quantity:	73
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:	20131105
Creation Date:	12/27/2013 22:15:22
Receipt Date:	20131119
Manifest ID:	000617324PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP

LOWES #1041 (Continued) **S113118034**

TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3155
Waste Quantity:	631
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:	20130830
Creation Date:	10/30/2013 22:15:29
Receipt Date:	20130913
Manifest ID:	000590176PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.317
Waste Quantity:	634
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:	20130830
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	000590176PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

LOWES #1041 (Continued) **S113118034**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.074
Waste Quantity:	148
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:	20130830
Creation Date:	10/30/2013 22:15:29
Receipt Date:	20130913
Manifest ID:	000590176PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.013
Waste Quantity:	26
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:	20130830
Creation Date:	10/30/2013 22:15:29
Receipt Date:	20130913
Manifest ID:	000590176PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.048
Waste Quantity:	96
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

LOWES #1041 (Continued) **S113118034**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130830
Creation Date:	10/30/2013 22:15:29
Receipt Date:	20130913
Manifest ID:	000590176PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.016
Waste Quantity:	32
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130711
Creation Date:	9/25/2013 22:15:07
Receipt Date:	20130725
Manifest ID:	000558002PSC
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
Trans 2 EPA ID:	CAD983649880
Trans 2 Name:	PSC ENVIRONMENTAL SERVICES OF POMONA LP
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.4265
Waste Quantity:	853
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

Additional Info:

Year:	2017
Gen EPA ID:	CAL000248314

LOWES #1041 (Continued) **S113118034**

Shipment Date:	20171205
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171213
Manifest ID:	001717910PSC
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.209
Waste Quantity:	418
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:	20171205
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171213
Manifest ID:	001717910PSC
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.024
Waste Quantity:	48
Quantity Unit:	P
Additional Code 1:	D007
Additional Code 2:	D005
Additional Code 3:	D001
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20171205
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171213
Manifest ID:	001717910PSC
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554

LOWES #1041 (Continued) **S113118034**

Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0025
Waste Quantity:	5
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D007
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20171205
Creation Date:	7/19/2018 18:30:11
Receipt Date:	20171213
Manifest ID:	001717910PSC
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.088
Waste Quantity:	176
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:	20171205
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001717910PSC
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217554
Trans 2 Name:	CRUZ CONTAINERS LOGISTICS INC
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D008
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

LOWES #1041 (Continued) **S113118034**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
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:	20170828
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20170906
Manifest ID:	001637957PSC
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.0115
Waste Quantity:	23
Quantity Unit:	P
Additional Code 1:	D018
Additional Code 2:	D007
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20170828
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20170906
Manifest ID:	001637957PSC
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.003
Waste Quantity:	6
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

LOWES #1041 (Continued) **S113118034**

Additional Code 5:	Not reported
Shipment Date:	20170828
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20170906
Manifest ID:	001637957PSC
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0035
Waste Quantity:	7
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:	20170828
Creation Date:	6/27/2018 18:30:40
Receipt Date:	20170906
Manifest ID:	001637957PSC
Trans EPA ID:	MNS000110924
Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3895
Waste Quantity:	779
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:	20170828
Creation Date:	Not reported
Receipt Date:	Not reported
Manifest ID:	001637957PSC
Trans EPA ID:	MNS000110924

LOWES #1041 (Continued) **S113118034**

Trans Name:	STERICYCLE SPECIALTY WASTE SOLUTIONS INC
Trans 2 EPA ID:	CAR000217000
Trans 2 Name:	LA CHIQUITA TRUCKING
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1045
Waste Quantity:	209
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

Additional Info:

Year:	2005
Gen EPA ID:	CAL000248314
Shipment Date:	20051209
Creation Date:	7/11/2006 18:33:41
Receipt Date:	20051219
Manifest ID:	24580855
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.0225
Waste Quantity:	45
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:	20051209
Creation Date:	7/11/2006 18:33:41
Receipt Date:	20051219
Manifest ID:	24580855
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432

LOWES #1041 (Continued) **S113118034**

Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0125
Waste Quantity:	25
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:	20051209
Creation Date:	7/11/2006 18:33:41
Receipt Date:	20051219
Manifest ID:	24580855
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	612 - Household waste
RCRA Code:	Not reported
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.005
Waste Quantity:	10
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:	20051209
Creation Date:	7/11/2006 18:33:41
Receipt Date:	20051219
Manifest ID:	24580855
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	181 - Other inorganic solid waste Organics
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P

LOWES #1041 (Continued) **S113118034**

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:	20050727
Creation Date:	10/12/2005 18:35:03
Receipt Date:	20050727
Manifest ID:	23768073
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.0125
Waste Quantity:	25
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:	20050425
Creation Date:	7/21/2005 18:32:26
Receipt Date:	20050425
Manifest ID:	23769513
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.03
Waste Quantity:	60
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:	20050425
Creation Date:	7/21/2005 18:32:26
Receipt Date:	20050425

LOWES #1041 (Continued) **S113118034**

Manifest ID:	23769513
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	- Not reported
Quantity Tons:	0.132
Waste Quantity:	40
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:	20050425
Creation Date:	7/21/2005 18:32:26
Receipt Date:	20050425
Manifest ID:	23769513
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	- Not reported
Quantity Tons:	0.025
Waste Quantity:	50
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

Additional Info:

Year:	2002
Gen EPA ID:	CAL000248314

Shipment Date:	20021219
Creation Date:	4/2/2003 18:31:15
Receipt Date:	20021219
Manifest ID:	22099942
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

LOWES #1041 (Continued) **S113118034**

TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	122 - Alkaline solution without metals (pH > 12.5
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.055
Waste Quantity:	110
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:	20021219
Creation Date:	4/2/2003 18:31:15
Receipt Date:	20021219
Manifest ID:	22099942
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
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:	T01 - Treatment, Tank
Quantity Tons:	0.396
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:	20021219
Creation Date:	4/2/2003 18:31:15
Receipt Date:	20021219
Manifest ID:	22099942
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
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:	T01 - Treatment, Tank
Quantity Tons:	0.08
Waste Quantity:	160

LOWES #1041 (Continued) **S113118034**

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:	20021219
Creation Date:	4/2/2003 18:31:15
Receipt Date:	20021219
Manifest ID:	22099942
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.075
Waste Quantity:	150
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:	20021029
Creation Date:	2/10/2003 18:31:16
Receipt Date:	20021029
Manifest ID:	22094845
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.3
Waste Quantity:	600
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:	20021029
Creation Date:	2/10/2003 18:31:16

LOWES #1041 (Continued) **S113118034**

Receipt Date:	20021029
Manifest ID:	22094845
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus 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:	20021029
Creation Date:	2/10/2003 18:31:16
Receipt Date:	20021029
Manifest ID:	22094845
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.15
Waste Quantity:	300
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:	20021029
Creation Date:	2/10/2003 18:31:16
Receipt Date:	20021029
Manifest ID:	22094845
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

LOWES #1041 (Continued) **S113118034**

TSDF Alt Name:	Not reported
Waste Code Description:	791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
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:	20020703
Creation Date:	3/13/2003 18:31:17
Receipt Date:	20020703
Manifest ID:	21719546
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	291 - Latex waste
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.15
Waste Quantity:	300
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:	20020703
Creation Date:	3/13/2003 18:31:17
Receipt Date:	20020703
Manifest ID:	21719546
Trans EPA ID:	CAD008364432
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported

LOWES #1041 (Continued) **S113118034**

Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAL000248314
Shipment Date:	20061103
Creation Date:	3/30/2007 13:32:27
Receipt Date:	20061106
Manifest ID:	000498762JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	U002
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.39
Waste Quantity:	780
Quantity Unit:	P
Additional Code 1:	D035
Additional Code 2:	D018
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20061103
Creation Date:	3/30/2007 13:32:27
Receipt Date:	20061106
Manifest ID:	000498762JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	U002
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.07
Waste Quantity:	140
Quantity Unit:	P
Additional Code 1:	D035
Additional Code 2:	D018
Additional Code 3:	D005
Additional Code 4:	D001
Additional Code 5:	Not reported
Shipment Date:	20061103

LOWES #1041 (Continued) **S113118034**

Creation Date:	3/30/2007 13:32:27
Receipt Date:	20061106
Manifest ID:	000498762JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	Not reported
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site
Quantity Tons:	0.04
Waste Quantity:	80
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:	20060829
Creation Date:	11/21/2006 18:30:32
Receipt Date:	20060830
Manifest ID:	24958132
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.15
Waste Quantity:	300
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:	20060609
Creation Date:	11/21/2006 18:30:32
Receipt Date:	20060613
Manifest ID:	24960463
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM CORPORATION

LOWES #1041 (Continued) **S113118034**

TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D001
Meth Code:	T01 - Treatment, Tank
Quantity Tons:	0.11
Waste Quantity:	220
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:	20060228
Creation Date:	7/14/2006 18:30:33
Receipt Date:	20060301
Manifest ID:	24579160
Trans EPA ID:	CAD008364432
Trans Name:	RHO-CHEM
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO-CHEM CORPORATION
TSDF Alt EPA ID:	CAD008364432
TSDF Alt Name:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	Not reported
Waste Quantity:	16
Quantity Unit:	Not reported
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:	2007
Gen EPA ID:	CAL000248314
Shipment Date:	20070911
Creation Date:	12/10/2007 18:30:13
Receipt Date:	20070911
Manifest ID:	002976180JJK
Trans EPA ID:	CAD008364432
Trans Name:	RHO CHEM CORPORATION
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD008364432
Trans Name:	RHO CHEM CORPORATION
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	331 - Off-specification, aged, or surplus organics
RCRA Code:	D035
Meth Code:	H061 - Fuel Blending Prior To Energy Recovery At Another Site

LOWES #1041 (Continued) **S113118034**

Quantity Tons: 0.4
Waste Quantity: 800
Quantity Unit: P
Additional Code 1: D018
Additional Code 2: D007
Additional Code 3: D005
Additional Code 4: D001
Additional Code 5: Not reported

San Bern. Co. Permit:
Name: LOWE'S #1041
Address: 1659 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0011737
Owner: Lowe's Home Centers, LLC
Permit Number: PT0020362
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 08/31/2020

Name: LOWE'S #1041
Address: 1659 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0011737
Owner: Lowe's Home Centers, LLC
Permit Number: PT0020363
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 08/31/2020

Name: LOWE'S #1041
Address: 1659 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0011737
Owner: Lowe's Home Centers, LLC
Permit Number: PT0020888
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 08/31/2020

CERS:
Name: LOWE'S #1041
Address: 1659 W FOOTHILL BLVD
City,State,Zip: UPLAND, CA 91786
Site ID: 131596
CERS ID: 10053421
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-08-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION

LOWES #1041 (Continued) **S113118034**

Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-08-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-08-2014
Violations Found: No
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: 09-29-2017
Violations Found: No
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: 09-29-2017
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: 09-29-2017
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

Coordinates:
Site ID: 131596
Facility Name: LOWE'S #1041
Env Int Type Code: HWG
Program ID: 10053421
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.109009

LOWES #1041 (Continued) **S113118034**

Longitude: -117.682190

Affiliation:

Affiliation Type Desc: Environmental Contact
Entity Name: Laurie Litwin
Entity Title: Not reported
Affiliation Address: 2603 Main St., Suite 700
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92614
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: LOWE'S Home Centers, LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 982-4795

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 2603 Main St., Suite 700
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92614
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: LOWE'S Home Centers, LLC
Entity Title: Not reported
Affiliation Address: 1000 Lowe's Blvd.
Affiliation City: Mooresville
Affiliation State: NC
Affiliation Country: United States
Affiliation Zip: 28117
Affiliation Phone: (704) 758-6033

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: APTIM
Entity Title: Not reported
Affiliation Address: Not reported

LOWES #1041 (Continued) **S113118034**

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:	Laurie Litwin
Entity Title:	Regional Environmental Compliance Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	LOWE'S Home Centers, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Lowe's Home Centers, LLC
Entity Title:	Not reported
Affiliation Address:	1000 Lowe's Blvd.
Affiliation City:	Mooresville
Affiliation State:	NC
Affiliation Country:	United States
Affiliation Zip:	28117
Affiliation Phone:	(704) 758-6033

HWTS:

Name:	LOWES #1041
Address:	1659 W FOOTHILL BLVD
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786
EPA ID:	CAL000248314
Inactive Date:	01/25/2018
Create Date:	03/20/2002
Last Act Date:	08/27/2019
Mailing Name:	BOBBI TENBORG
Mailing Address:	1000 LOWE'S BLVD
Mailing Address 2:	MAIL CODE A3WLP
Mailing City,State,Zip:	MOORESVILLE, NC 281170000
Owner Name:	LOWES HOME CENTERS, LLC
Owner Address:	1000 LOWE'S BLVD
Owner Address 2:	MAIL CODE A3WLP
Owner City,State,Zip:	MOORESVILLE, NC 281170000
Contact Name:	ROB GASS
Contact Address:	1000 LOWE'S BLVD
Contact Address 2:	MAILCODE: A3WLP

LOWES #1041 (Continued) **S113118034**

City,State,Zip: MOORESVILLE, NC 28117

NAICS:

EPA ID:	CAL000248314
Create Date:	2005-03-08 14:50:00.000
NAICS Code:	44419
NAICS Description:	Other Building Material Dealers
Issued EPA ID Date:	2002-03-20 11:02:06.84300
Inactive Date:	2018-01-25 00:00:00
Facility Name:	LOWES #1041
Facility Address:	1659 W FOOTHILL BLVD
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91786

O108 **LOWE'S OF UPLAND #1041** **AST** **S106093042**
NE **1659 W FOOTHILL** **N/A**
1/8-1/4 **UPLAND, CA**
0.193 mi.
1021 ft. **Site 3 of 4 in cluster O**

Relative:
Higher

Actual:
1381 ft.

AST:

Name:	LOWE'S OF UPLAND #1041
Address:	1659 W FOOTHILL
City/Zip:	UPLAND,
Certified Unified Program Agencies:	San Bernardino
Owner:	LOWE'S COMPANIES INC.
Total Gallons:	1,500
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

O109 **LOWE'S OF UPLAND #1041** **AST** **A100422053**
NE **1659 W FOOTHILL BLVD** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.193 mi.
1021 ft. **Site 4 of 4 in cluster O**

Relative: **Higher**
Actual: **1381 ft.**

AST:

Name:	LOWE'S OF UPLAND #1041
Address:	1659 W FOOTHILL BLVD
City/Zip:	UPLAND,91786
Certified Unified Program Agencies:	Not reported
Owner:	Lowe's Home Centers, LLC
Total Gallons:	Not reported
CERSID:	10053421
Facility ID:	FA0011737
Business Name:	Lowe's HIW, Inc.
Phone:	(888) 429-6281
Fax:	(909) 931-1649
Mailing Address:	1000 Lowe's Blvd., Mail Code A2ELP
Mailing Address City:	Mooresville
Mailing Address State:	NC
Mailing Address Zip Code:	28117
Operator Name:	Lowe's Home Centers, LLC
Operator Phone:	(909) 982-4795
Owner Phone:	(704) 758-6033
Owner Mail Address:	1605 Curtis Bridge Rd, Mailcode A2ELP
Owner State:	NC
Owner Zip Code:	28697
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:	CAL000248314

P110 **CATTRAC CONSTRUCTION** **HIST UST** **S118408477**
SW **1953 WEST 11TH STREET** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.215 mi.
1137 ft. **Site 1 of 2 in cluster P**

Relative: **Lower**
Actual: **1308 ft.**

HIST UST:

Name:	CATTRAC CONSTRUCTION
Address:	1953 WEST 11TH STREET
City,State,Zip:	UPLAND, CA 91786
File Number:	00029A02
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029A02.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

CATTRAC CONSTRUCTION (Continued) **S118408477**

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:

P111 **CATTRAC CONSTRUCTION** **HIST UST** **U001570659**
SW **1953 W 11TH ST** **San Bern. Co. Permit** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.215 mi.
1137 ft. **Site 2 of 2 in cluster P**

Relative:
Lower

Actual:
1308 ft.

HIST UST:

Name:	CATTRAC CONSTRUCTION
Address:	1953 W 11TH ST
City,State,Zip:	UPLAND, CA 91786
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000042420
Facility Type:	Other
Other Type:	CONTRACTOR
Contact Name:	LARRY BURDICK
Telephone:	7149818908
Owner Name:	BERRY CONSTRUCTION, INC.
Owner Address:	1921 WEST 11TH STREET
Owner City,St,Zip:	UPLAND, CA 91786
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1974
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1974
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

San Bern. Co. Permit:

Name:	JOEL'S AUTOMOTIVE, INC.
Address:	1953 W 11TH ST
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO

CATTRAC CONSTRUCTION (Continued) **U001570659**

Facility ID: FA0013167
Owner: JOEL'S AUTOMOTIVE INC
Permit Number: PT0023172
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 04/30/2019

Name: JOEL'S AUTOMOTIVE, INC.
Address: 1953 W 11TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0013167
Owner: JOEL'S AUTOMOTIVE INC
Permit Number: PT0023173
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2019

Name: INTERSTATE BATTERY INLAND EMPIRE
Address: 1953 W 11TH ST
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004005
Owner: LARRY BURKE ENTERPRISES
Permit Number: PT0008594
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 04/30/2011

N112 **T & C SMALL ENGINES** **San Bern. Co. Permit** **S105698443**
South **1777 WOODLAWN ST G-25** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.223 mi.
1177 ft. **Site 5 of 9 in cluster N**

Relative: **Lower**
Actual: **1293 ft.**

San Bern. Co. Permit:
Name: T & C SMALL ENGINES
Address: 1777 WOODLAWN ST G-25
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0006578
Owner: BARBARA TOERNER
Permit Number: PT0009851
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 12/31/2008

N113 **M.B. AUTOMOTIVE INC.** **CERS HAZ WASTE** **S104772119**
South **1777 WOODLAWN ST STE F2** **San Bern. Co. Permit** **N/A**
1/8-1/4 **UPLAND, CA 91786** **CERS**
0.223 mi.
1177 ft. **Site 6 of 9 in cluster N**

Relative:
Lower

Actual:
1293 ft.

CERS HAZ WASTE:

Name:	M.B. AUTOMOTIVE INC.
Address:	1777 WOODLAWN ST STE F2
City,State,Zip:	UPLAND, CA 91786
Site ID:	45750
CERS ID:	10041655
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	M.B. AUTOMOTIVE INC.
Address:	1777 WOODLAWN ST STE F2
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0004530
Owner:	BURNETT, CHRIS
Permit Number:	PT0005719
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	10/31/2020

Name:	M.B. AUTOMOTIVE INC.
Address:	1777 WOODLAWN ST STE F2
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0004530
Owner:	BURNETT, CHRIS
Permit Number:	PT0005718
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	10/31/2020

Name:	W J AUTOMOTIVE
Address:	1777 WOODLAWN ST F1
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0007180
Owner:	VAN DAMME, WILLIAM D.
Permit Number:	PT0004177
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	11/30/2009

Name:	W J AUTOMOTIVE
Address:	1777 WOODLAWN ST F1
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0007180
Owner:	VAN DAMME, WILLIAM D.
Permit Number:	PT0004176
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	11/30/2009

M.B. AUTOMOTIVE INC. (Continued) **S104772119**

CERS:
Name: M.B. AUTOMOTIVE INC.
Address: 1777 WOODLAWN ST STE F2
City,State,Zip: UPLAND, CA 91786
Site ID: 45750
CERS ID: 10041655
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 45750
Site Name: M.B. AUTOMOTIVE inc.
Violation Date: 07-15-2016
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 08/29/2016. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) (2) 55 gallon drums containing used oil were not labeled.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 45750
Site Name: M.B. AUTOMOTIVE inc.
Violation Date: 05-02-2019
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 05/02/2019. OBSERVATION: At the time of inspection the last business plan submitted to CERS was on 2/15/2018. CORRECTIVE ACTION: Review and certify the business plan via CERS. Your CERS ID number is 10041655. This violation was corrected at the time of inspection. Mr. Burnett submitted all required elements of the business plan into CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 45750
Site Name: M.B. AUTOMOTIVE inc.
Violation Date: 07-02-2013
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 07/05/2013.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 45750
Site Name: M.B. AUTOMOTIVE inc.
Violation Date: 07-15-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2

M.B. AUTOMOTIVE INC. (Continued) **S104772119**

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 08/22/2016. The most recent paper Business Plan was submitted on 02/08/10.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	45750
Site Name:	M.B. AUTOMOTIVE inc.
Violation Date:	07-02-2013
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 07/05/2013. Failure to manage hazardous waste lawfully (CHSC 25154)
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	45750
Site Name:	M.B. AUTOMOTIVE inc.
Violation Date:	07-15-2016
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 08/29/2016. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) 55 gallon drum of used oil and (1) 55 gallon drum of waste antifreeze did not have labels affixed to the containers containing hazardous waste.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	45750
Site Name:	M.B. AUTOMOTIVE inc.
Violation Date:	05-02-2019
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
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 05/02/2019. OBSERVATION: At the time of inspection the hazardous materials inventory submitted to CERS on 2/15/2018 was missing the federal hazard categories. CORRECTIVE ACTION: Submit a signed statement stating that you have submitted an accurate and complete hazardous materials inventory with the updated federal hazard categories via CERS. This violation was corrected during inspection. Mr. Burnett updated the federal hazard categories to his listed items in the hazardous materials inventory via CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	45750
Site Name:	M.B. AUTOMOTIVE inc.

M.B. AUTOMOTIVE INC. (Continued) **S104772119**

Violation Date:	07-02-2013
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 07/05/2013. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	45750
Site Name:	M.B. AUTOMOTIVE inc.
Violation Date:	07-15-2016
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:	Returned to compliance on 08/22/2016. The facility has never submitted a Business Plan on CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	45750
Site Name:	M.B. AUTOMOTIVE inc.
Violation Date:	07-15-2016
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 08/29/2016. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Hazardous waste containers with >27 gallons of hazardous waste did not accumulation start dates affixed to the containers.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	45750
Site Name:	M.B. AUTOMOTIVE inc.
Violation Date:	07-15-2016
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 08/29/2016. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31) Used oil and antifreeze were observed in open drip pans. Operator stated that the pans were not currently in use.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	45750
Site Name:	M.B. AUTOMOTIVE inc.
Violation Date:	07-15-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple

M.B. AUTOMOTIVE INC. (Continued) **S104772119**

Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 08/29/2016. Failure to obtain an EPA ID Number (CCR 66262.12(a)) EPA ID number CAL000319954 has been inactive since 06/30/11.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 45750
Site Name: M.B. AUTOMOTIVE inc.
Violation Date: 07-02-2013
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 07/05/2013. 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: 45750
Site Name: M.B. AUTOMOTIVE inc.
Violation Date: 07-15-2016
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 08/29/2016. Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 45750
Site Name: M.B. AUTOMOTIVE inc.
Violation Date: 05-02-2019
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 05/02/2019. OBSERVATION: At the time of inspection the facility had an inactive EPA ID number. CORRECTIVE ACTION: Submit DTSC Form 1358 to the DTSC. Submit documentation to the CUPA demonstrating that you have reactivated your EPA ID number. This violation was corrected at the time of inspection. Mr. Burnett submitted DTSC Form 1358 to the DTSC via email.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 45750
Site Name: M.B. AUTOMOTIVE inc.
Violation Date: 07-15-2016
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any

M.B. AUTOMOTIVE INC. (Continued) **S104772119**

one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.

Violation Notes: Returned to compliance on 08/22/2016. The inventory from the last paper submission (submitted 02/08/10) did not include the drained used oil filters, oxygen cylinders, or acetylene cylinders.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-02-2019
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: Compliance Evaluation Inspection
Eval Date: 05-02-2019
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: 07-02-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-02-2013
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: 07-15-2016
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

M.B. AUTOMOTIVE INC. (Continued) **S104772119**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-15-2016
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
Eval Source: CERS

Enforcement Action:
Site ID: 45750
Site Name: M.B. AUTOMOTIVE inc.
Site Address: 1777 WOODLAWN ST STE F2
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 07-02-2013
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
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 45750
Site Name: M.B. AUTOMOTIVE inc.
Site Address: 1777 WOODLAWN ST STE F2
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 07-15-2016
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: 45750
Site Name: M.B. AUTOMOTIVE inc.
Site Address: 1777 WOODLAWN ST STE F2
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 07-15-2016
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

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Chris Burnett
Entity Title: Not reported
Affiliation Address: Not reported

M.B. AUTOMOTIVE INC. (Continued) **S104772119**

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:	CHRIS BURNETT
Entity Title:	Not reported
Affiliation Address:	1777 WOODLAWN ST, BLDG F2
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:	1777 WOODLAWN ST BLDG F2
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	BURNETT, CHRIS
Entity Title:	Not reported
Affiliation Address:	1777 WOODLAWN STREET BLDG F2
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786-7605
Affiliation Phone:	(909) 985-4579
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:	Identification Signer
Entity Name:	Chris Burnett
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:	Operator

M.B. AUTOMOTIVE INC. (Continued) **S104772119**

Entity Name:	M.B. AUTOMOTIVE
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) 985-4579
Affiliation Type Desc:	Parent Corporation
Entity Name:	M.B. AUTOMOTIVE
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

N114 **HARDING'S AUTOMOTIVE** **San Bern. Co. Permit** **S117388332**
South **1777 WOODLAWN ST G14** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.223 mi.
1177 ft. **Site 7 of 9 in cluster N**

Relative: **Lower**
Actual: **1293 ft.**

San Bern. Co. Permit:

Name:	HARDING'S AUTOMOTIVE
Address:	1777 WOODLAWN ST G14
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0015586
Owner:	HARDING'S AUTOMOTIVE
Permit Number:	PT0034160
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	INACTIVE
Expiration Date:	10/31/2017

N115 **DELISLE CUSTOM PRODUCTS** **San Bern. Co. Permit** **S108937523**
South **1777 WOODLAWN ST UNIT G1** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.223 mi.
1177 ft. **Site 8 of 9 in cluster N**

Relative: **Lower**
Actual: **1293 ft.**

San Bern. Co. Permit:

Name:	DELISLE CUSTOM PRODUCTS
Address:	1777 WOODLAWN ST UNIT G1
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0011290
Owner:	DELISLE, JEFF
Permit Number:	PT0019493
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	11/30/2009

DELISLE CUSTOM PRODUCTS (Continued) **S108937523**

Name: DELISLE CUSTOM PRODUCTS
Address: 1777 WOODLAWN ST UNIT G1
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0011290
Owner: DELISLE, JEFF
Permit Number: PT0019494
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2009

N116 **REDLINE CORVETTE PARTS** **San Bern. Co. Permit** **S108937519**
South **1777 WOODLAWN ST G4** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.223 mi.
1177 ft. **Site 9 of 9 in cluster N**

Relative: San Bern. Co. Permit:
Lower
Actual: Name: REDLINE CORVETTE PARTS
1293 ft. Address: 1777 WOODLAWN ST G4
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0011284
Owner: ROTHNIE, PAT
Permit Number: PT0019482
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 11/30/2009

Name: REDLINE CORVETTE PARTS
Address: 1777 WOODLAWN ST G4
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0011284
Owner: ROTHNIE, PAT
Permit Number: PT0019481
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 11/30/2009

Q117 **R & A AUTO SOLUTIONS INC DBA MAINTENANCE PROS** **RCRA NonGen / NLR** **1025875944**
SE **779 N BENSON AVE UNIT A** **CAL000449080**
1/8-1/4 **UPLAND, CA 91786**
0.227 mi.
1200 ft. **Site 1 of 5 in cluster Q**

Relative: RCRA NonGen / NLR:
Lower
Actual: Date Form Received by Agency: 2019-09-19 00:00:00.0
1310 ft. Handler Name: R & A AUTO SOLUTIONS INC DBA MAINTENANCE PROS
Handler Address: 779 N BENSON AVE UNIT A
Handler City,State,Zip: UPLAND, CA 91786
EPA ID: CAL000449080
Contact Name: ALEXANDER WEINBERGER
Contact Address: 779 N BENSON AVE UNIT A
Contact City,State,Zip: UPLAND, CA 91786
Contact Telephone: 909-280-1477

R & A AUTO SOLUTIONS INC DBA MAINTENANCE PROS (Continued) **1025875944**

Contact Fax:	Not reported
Contact Email:	ALEX@GOLDENCOMPASSINSURANCE.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:	779 N BENSON AVE UNIT A
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	R & A AUTO SOLUTIONS INC
Owner Type:	Other
Operator Name:	ALEXANDER WEINBERGER
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
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

R & A AUTO SOLUTIONS INC DBA MAINTENANCE PROS (Continued) **1025875944**

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:	2019-09-27 16:23:56.0
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:	R & A AUTO SOLUTIONS INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	779 N BENSON AVE UNIT A
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-280-1477
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ALEXANDER WEINBERGER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	779 N BENSON AVE UNIT A
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-280-1477
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-09-19 00:00:00.0
Handler Name:	R & A AUTO SOLUTIONS INC DBA MAINTENANCE PROS
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

R & A AUTO SOLUTIONS INC DBA MAINTENANCE PROS (Continued) **1025875944**

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

Q118 **PIERRE'S AUTO CLINIC** **CERS HAZ WASTE** **S123501554**
SE **779 N BENSON UNIT H** **CERS** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.227 mi.
1200 ft. **Site 2 of 5 in cluster Q**

Relative:
Lower

Actual:
1310 ft.

CERS HAZ WASTE:
Name: PIERRE'S AUTO CLINIC
Address: 779 N BENSON UNIT H
City,State,Zip: UPLAND, CA 91786
Site ID: 143811
CERS ID: 10313134
CERS Description: Hazardous Waste Generator

CERS:
Name: PIERRE'S AUTO CLINIC
Address: 779 N BENSON UNIT H
City,State,Zip: UPLAND, CA 91786
Site ID: 143811
CERS ID: 10313134
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Violation Date: 07-11-2017
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 07/11/2017. 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: 143811
Site Name: PIERRE'S AUTO CLINIC
Violation Date: 07-11-2017
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 09/12/2017.
Violation Division: San Bernardino County Fire Department

PIERRE'S AUTO CLINIC (Continued) **S123501554**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Violation Date: 07-11-2017
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 07/11/2017. Failure to label hazardous waste containers (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Violation Date: 09-30-2014
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 04/12/2016. Failure to obtain an EPA ID Number (CCR 66262.12(a)) The EPA Id was found to be inactive. Submit the provided forms to the DTSC to activate the number.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Violation Date: 07-11-2017
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 07/11/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Violation Date: 09-30-2014
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 09/12/2017. Submits a business plan using the CERS system.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Violation Date: 07-11-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter

PIERRE'S AUTO CLINIC (Continued) **S123501554**

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: Returned to compliance on 09/12/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Violation Date: 07-11-2017
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 07/11/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Violation Date: 07-23-2020
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/31/2020. OBSERVATION: The CERS business plan was last updated on 9/12/2017. The plan is required to be updated annually. CORRECTIVE ACTION: Review and submit an annual update in CERS. Guidance documents were provided. Also ensure that the federal hazard classification for each of the three inventory items is updated.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FILE REVIEW.
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION, FILE REVIEW.
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

PIERRE'S AUTO CLINIC (Continued) **S123501554**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-23-2020
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: 07-23-2020
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: 09-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: routine inspection pierres
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-30-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: routine inspection pierres
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Site Address: 779 N BENSON UNIT H
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 07-11-2017
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: HMRRP
Enf Action Source: CERS

Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Site Address: 779 N BENSON UNIT H
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 07-11-2017
Enf Action Type: Notice of Violation (Unified Program)

PIERRE'S AUTO CLINIC (Continued) **S123501554**

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: 143811
Site Name: PIERRE'S AUTO CLINIC
Site Address: 779 N BENSON UNIT H
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 09-30-2014
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: HMRRP
Enf Action Source: CERS

Site ID: 143811
Site Name: PIERRE'S AUTO CLINIC
Site Address: 779 N BENSON UNIT H
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 09-30-2014
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: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Operator
Entity Name: PIERRE HAYEK
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) 241-0916

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: Parent Corporation
Entity Name: PIERRE'S AUTO CLINIC
Entity Title: Not reported
Affiliation Address: Not reported

PIERRE'S AUTO CLINIC (Continued) **S123501554**

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:	779 N BENSON, UNIT H
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	PIERRE HAYEK
Entity Title:	Not reported
Affiliation Address:	779 BENSON AVE #H
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	HAYEK, PIERRE
Entity Title:	Not reported
Affiliation Address:	799 N BENSON, UNIT H
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 920-9499

Q119 **ACE MOTORSPORTS** **RCRA NonGen / NLR** **1024836156**
SE **779 N BENSON AVE UNIT A** **CAL000379120**
1/8-1/4 **UPLAND, CA 91786**
0.227 mi.
1200 ft. **Site 3 of 5 in cluster Q**

Relative: RCRA NonGen / NLR:
Lower

Date Form Received by Agency:		2012-10-23 00:00:00.0
Handler Name:	ACE MOTORSPORTS	
Handler Address:		779 N BENSON AVE UNIT A
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAL000379120
Contact Name:		BRIAN WILLISOM
Contact Address:		779 N BENSON AVE UNIT A
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-981-3860
Contact Fax:		909-981-3862
Contact Email:		ACEMOTORSPORTS@LIVE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported

Actual:
1310 ft.

ACE MOTORSPORTS (Continued) **1024836156**

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:	779 N BENSON AVE UNIT A
Mailing City,State,Zip:	UPLAND, CA 91786
Owner Name:	BRIAN WILLISON
Owner Type:	Other
Operator Name:	BRIAN WILLISOM
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

ACE MOTORSPORTS (Continued) **1024836156**

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 17:01:29.0
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:	BRIAN WILLISON
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	779 N BENSON AVE UNIT A
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-981-3860
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BRIAN WILLISOM
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	779 N BENSON AVE UNIT A
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-981-3860
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2012-10-23 00:00:00.0
Handler Name: ACE MOTORSPORTS	
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

ACE MOTORSPORTS (Continued) **1024836156**

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

Q120 **GEAR IT UP** **San Bern. Co. Permit** **S111858919**
SE **779 N BENSON AVE UNIT G** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.227 mi.
1200 ft. **Site 4 of 5 in cluster Q**

Relative: **Lower**
Actual: **1310 ft.**

San Bern. Co. Permit:
Name: GEAR IT UP
Address: 779 N BENSON AVE UNIT G
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0014893
Owner: CHRIS GEAR
Permit Number: PT0025935
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: INACTIVE
Expiration Date: 11/30/2017

Name: GEAR IT UP
Address: 779 N BENSON AVE UNIT G
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0014893
Owner: CHRIS GEAR
Permit Number: PT0025934
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 11/30/2014

Q121 **PIERRE'S AUTO CLINIC** **San Bern. Co. Permit** **S111859521**
SE **779 N BENSON UNIT H** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.227 mi.
1200 ft. **Site 5 of 5 in cluster Q**

Relative: **Lower**
Actual: **1310 ft.**

San Bern. Co. Permit:
Name: PIERRE'S AUTO CLINIC
Address: 779 N BENSON UNIT H
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0014356
Owner: HAYEK, PIERRE
Permit Number: PT0025222
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE

PIERRE'S AUTO CLINIC (Continued) **S111859521**

Expiration Date: 03/31/2021

Name: PIERRE'S AUTO CLINIC
Address: 779 N BENSON UNIT H
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0014356
Owner: HAYEK, PIERRE
Permit Number: PT0025223
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 03/31/2021

---

122 North 1/8-1/4 0.228 mi. 1206 ft.

CABLE AIRPORT, INC.
1749 W 013TH ST
UPLAND, CA 91786

SWEEPS UST **S101619056**
CA FID UST **N/A**

Relative: Higher

Actual: 1393 ft.

SWEEPS UST:

Name: CABLE AIRPORT, INC.
Address: 1749 W 013TH ST
City: UPLAND
Status: Not reported
Comp Number: 9343
Number: Not reported
Board Of Equalization: 44-019815
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-009343-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Name: CABLE AIRPORT, INC.
Address: 1749 W 013TH ST
City: UPLAND
Status: Not reported
Comp Number: 9343
Number: Not reported
Board Of Equalization: 44-019815
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-009343-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: AVIA. GAS

CABLE AIRPORT, INC. (Continued) **S101619056**

Number Of Tanks: Not reported

Name: CABLE AIRPORT, INC.
Address: 1749 W 013TH ST
City: UPLAND
Status: Active
Comp Number: 9343
Number: 9
Board Of Equalization: 44-019815
Referral Date: 07-28-92
Action Date: 05-24-94
Created Date: 02-29-88
Owner Tank Id: 2
SWRCB Tank Id: 36-000-009343-000003
Tank Status: A
Capacity: 10000
Active Date: 06-28-88
Tank Use: M.V. FUEL
STG: P
Content: AVIA. GAS
Number Of Tanks: 3

Name: CABLE AIRPORT, INC.
Address: 1749 W 013TH ST
City: UPLAND
Status: Active
Comp Number: 9343
Number: 9
Board Of Equalization: 44-019815
Referral Date: 07-28-92
Action Date: 05-24-94
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 36-000-009343-000004
Tank Status: A
Capacity: 12000
Active Date: 06-28-88
Tank Use: M.V. FUEL
STG: P
Content: AVIA. GAS
Number Of Tanks: Not reported

Name: CABLE AIRPORT, INC.
Address: 1749 W 013TH ST
City: UPLAND
Status: Active
Comp Number: 9343
Number: 9
Board Of Equalization: 44-019815
Referral Date: 07-28-92
Action Date: 05-24-94
Created Date: 02-29-88
Owner Tank Id: 4
SWRCB Tank Id: 36-000-009343-000005
Tank Status: A
Capacity: 1000
Active Date: 06-28-88

CABLE AIRPORT, INC. (Continued) **S101619056**

Tank Use: M.V. FUEL
STG: P
Content: AVIA. GAS
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36008315
Regulated By: UTNKA
Regulated ID: 00001656
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1749 W 013TH ST
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

R123 **MASTER SIGN** **San Bern. Co. Permit** **S109598597**
SSW **1846 W 11TH ST UNIT B** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.236 mi.
1245 ft. **Site 1 of 3 in cluster R**

Relative: **Lower**

Actual: **1292 ft.**

San Bern. Co. Permit:
Name: MASTER SIGN
Address: 1846 W 11TH ST UNIT B
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004610
Owner: YOUNG, MARK
Permit Number: PT0005361
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 09/30/2012

Name: MASTER SIGN
Address: 1846 W 11TH ST UNIT B
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004610
Owner: YOUNG, MARK
Permit Number: PT0005362
Permit Category: CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 09/30/2012

R124
SSW
1/8-1/4
0.236 mi.
1245 ft.

JIM VAN GORDON RACING
1846 W 11TH ST
UPLAND, CA 91786

Site 2 of 3 in cluster R

RCRA-SQG **1004677387**
FINDS **CAR000096594**

Relative:
Lower

Actual:
1292 ft.

RCRA-SQG:

Date Form Received by Agency:		2001-05-11 00:00:00.0
Handler Name:	JIM VAN GORDON RACING	
Handler Address:		1846 W 11TH ST
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAR000096594
Contact Name:		JIM VAN GORDON
Contact Address:		1846 W 11TH ST
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-946-5991
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:		1846 W 11TH ST
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		JIM VAN GORDON
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:		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

JIM VAN GORDON RACING (Continued) **1004677387**

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:	2002-10-07 16:36:24.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JIM VAN GORDON
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1846 W 11TH ST
Owner/Operator City,State,Zip:	UPLAND, CA 91786
Owner/Operator Telephone:	909-946-5991
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2001-05-11 00:00:00.0
Handler Name: JIM VAN GORDON RACING	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No

JIM VAN GORDON RACING (Continued) **1004677387**

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: 110012240495

Click Here:

Environmental Interest/Information System:
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.
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.

R125 **UNIVERSAL NDT INC** **RCRA NonGen / NLR** **1001111756**
SSW **1844 W 11TH ST UNIT F** **FINDS** **CAR000012948**
1/8-1/4 **UPLAND, CA 91786** **ECHO**
0.237 mi.
1254 ft. **Site 3 of 3 in cluster R**

Relative:
Lower

Actual:
1290 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 1996-06-06 00:00:00.0
Handler Name: UNIVERSAL NDT INC
Handler Address: 1844 W 11TH ST UNIT F
Handler City,State,Zip: UPLAND, CA 91786-3586
EPA ID: CAR000012948
Contact Name: LEONARD GARCIA JR
Contact Address: 1844 W 11TH ST UNIT F
Contact City,State,Zip: UPLAND, CA 91786-3586
Contact Telephone: 900-946-3049
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 09

UNIVERSAL NDT INC (Continued) **1001111756**

Land Type:	County
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:	W 11TH ST UNIT F
Mailing City,State,Zip:	UPLAND, CA 91786-3586
Owner Name:	LEONARD GARCIA JR
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:	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
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

UNIVERSAL NDT INC (Continued) **1001111756**

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 17:30:54.0
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:	LEONARD GARCIA JR
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	753 W LOCUST ST
Owner/Operator City,State,Zip:	ONTARIO, CA 91762-5618
Owner/Operator Telephone:	909-946-3049
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1996-06-06 00:00:00.0
Handler Name: UNIVERSAL NDT 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:	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:	110002912457

UNIVERSAL NDT INC (Continued) **1001111756**

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:	1001111756
Registry ID:	110002912457
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002912457
Name:	UNIVERSAL NDT INC
Address:	1844 W 11TH ST UNIT F
City,State,Zip:	UPLAND, CA 91786

S126 **M AND N TRANSMISSIONS** **RCRA-SQG** **1004678113**
West **923 CENTRAL AVE STE J** **FINDS** **CAR000105213**
1/8-1/4 **UPLAND, CA 91786** **ECHO**
0.246 mi. **HAZNET**
1300 ft. **Site 1 of 3 in cluster S** **HWTS**

Relative: **Lower**
Actual: **1332 ft.**

RCRA-SQG:

Date Form Received by Agency:		2001-09-13 00:00:00.0
Handler Name:	M AND N TRANSMISSIONS	
Handler Address:		923 CENTRAL AVE STE J
Handler City,State,Zip:		UPLAND, CA 91786
EPA ID:		CAR000105213
Contact Name:		MARIO ACEVES
Contact Address:		923 CENTRAL AVE STE J
Contact City,State,Zip:		UPLAND, CA 91786
Contact Telephone:		909-373-0566
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:		923 CENTRAL AVE STE J
Mailing City,State,Zip:		UPLAND, CA 91786
Owner Name:		MARIO ACEVES
Owner Type:		Private
Operator Name:		Not reported
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

M AND N TRANSMISSIONS (Continued) **1004678113**

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
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:	2002-10-07 16:36:12.0
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

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined

M AND N TRANSMISSIONS (Continued) **1004678113**

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: MARIO ACEVES
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 923 CENTRAL AVE STE J
Owner/Operator City,State,Zip: UPLAND, CA 91786
Owner/Operator Telephone: 909-375-0567
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2001-09-13 00:00:00.0
Handler Name: M AND N TRANSMISSIONS
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: 110012232057

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.

M AND N TRANSMISSIONS (Continued) **1004678113**

ECHO:

Envid:	1004678113
Registry ID:	110012232057
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012232057
Name:	M AND N TRANSMISSIONS
Address:	923 CENTRAL AVE STE J
City,State,Zip:	UPLAND, CA 91786

HAZNET:

Name:	M AND N TRANSMISSIONS
Address:	923 CENTRAL AVE STE J
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786
Contact:	Mario Aceves
Telephone:	9093730566
Mailing Name:	Not reported
Mailing Address:	923 Central Ave Ste J
Year:	2001
Gepaid:	CAR000105213
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.2814

Additional Info:

Year:	2001
Gen EPA ID:	CAR000105213
Shipment Date:	20011120
Creation Date:	1/16/2002 0:00:00
Receipt Date:	20011120
Manifest ID:	21318523
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2814
Waste Quantity:	67
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

M AND N TRANSMISSIONS (Continued) **1004678113**

HWTS:
Name: M AND N TRANSMISSIONS
Address: 923 CENTRAL AVE STE J
Address 2: Not reported
City,State,Zip: UPLAND, CA 91786
EPA ID: CAR000105213
Inactive Date: 06/30/2003
Create Date: 03/04/2003
Last Act Date: 04/19/2004
Mailing Name: Not reported
Mailing Address: 923 Central Ave Ste J
Mailing Address 2: Not reported
Mailing City,State,Zip: Upland, CA 91786
Owner Name: Mario Aceves
Owner Address: 923 Central Ave Ste J
Owner Address 2: Not reported
Owner City,State,Zip: Upland, CA 91786
Contact Name: Mario Aceves
Contact Address: 923 Central Ave Ste J
Contact Address 2: Not reported
City,State,Zip: Upland, CA 91786

S127 **UPLAND MERCEDES REPAIR** **CERS HAZ WASTE** **S103676333**
West **923 CENTRAL AVE** **San Bern. Co. Permit** **N/A**
1/8-1/4 **UPLAND, CA 91786** **CERS**
0.246 mi.
1300 ft. **Site 2 of 3 in cluster S**

Relative:
Lower

Actual:
1332 ft.

CERS HAZ WASTE:
Name: UPLAND MERCEDES REPAIR
Address: 923 CENTRAL AVE
City,State,Zip: UPLAND, CA 91786
Site ID: 79239
CERS ID: 10311892
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: UPLAND MERCEDES REPAIR
Address: 923 CENTRAL AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0013653
Owner: AWADALLA, ASSAAD
Permit Number: PT0023959
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status: ACTIVE
Expiration Date: 12/31/2020

Name: UPLAND MERCEDES REPAIR
Address: 923 CENTRAL AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0013653
Owner: AWADALLA, ASSAAD
Permit Number: PT0023958
Permit Category: HAZMAT HANDLER GENERAL ACT.(NB)
Facility Status: FEE EXEMPT

UPLAND MERCEDES REPAIR (Continued) **S103676333**

Expiration Date: 12/31/2014

CERS:
Name: UPLAND MERCEDES REPAIR
Address: 923 CENTRAL AVE
City,State,Zip: UPLAND, CA 91786
Site ID: 79239
CERS ID: 10311892
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 79239
Site Name: UPLAND MERCEDES REPAIR
Violation Date: 05-30-2017
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 06/20/2017. Failure to establish a Contingency Plan (CCR 66265.51(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 79239
Site Name: UPLAND MERCEDES REPAIR
Violation Date: 05-30-2017
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 05/30/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 79239
Site Name: UPLAND MERCEDES REPAIR
Violation Date: 04-04-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 05/30/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79239
Site Name: UPLAND MERCEDES REPAIR
Violation Date: 05-30-2017
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 05/30/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department

UPLAND MERCEDES REPAIR (Continued) **S103676333**

Violation Program: HW
Violation Source: CERS

Site ID: 79239
Site Name: UPLAND MERCEDES REPAIR
Violation Date: 05-30-2017
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 05/30/2017. Failure to label hazardous waste containers (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 79239
Site Name: UPLAND MERCEDES REPAIR
Violation Date: 05-30-2017
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 05/30/2017. 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

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: MERCEDES INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: MERCEDES INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-30-2017
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: 06-24-2020

UPLAND MERCEDES REPAIR (Continued) **S103676333**

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

Enforcement Action:
Site ID: 79239
Site Name: UPLAND MERCEDES REPAIR
Site Address: 923 CENTRAL AVE
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 04-04-2014
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: HMRRP
Enf Action Source: CERS

Site ID: 79239
Site Name: UPLAND MERCEDES REPAIR
Site Address: 923 CENTRAL AVE
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 05-30-2017
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: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 933-B2 N. CENTRAL AVE
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: AWADALLA, ASSAAD
Entity Title: Not reported
Affiliation Address: 933-B2 N. CENTRAL AVE
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91786
Affiliation Phone: (909) 981-3804

Affiliation Type Desc: CUPA District

UPLAND MERCEDES REPAIR (Continued) **S103676333**

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:	Operator
Entity Name:	ASSAAD AWADALLA
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) 981-3804
Affiliation Type Desc:	Parent Corporation
Entity Name:	UPLAND MERCEDES REPAIR
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:	Assaad Awadalla
Entity Title:	Owner/Operator
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:	Jim Laird
Entity Title:	Not reported
Affiliation Address:	933-B2 N. Central Ave
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91786
Affiliation Phone:	(909) 981-3804
Affiliation Type Desc:	Document Preparer
Entity Name:	Andy Awadalla
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

UPLAND MERCEDES REPAIR (Continued) **S103676333**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	ANDY AWADALLA
Entity Title:	Not reported
Affiliation Address:	933-B2 N. CENTRAL AVE
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

S128 **R & R ROTARY** **San Bern. Co. Permit** **S105482105**
West **933 CENTRAL D** **N/A**
1/8-1/4 **UPLAND, CA 91786**
0.246 mi.
1301 ft. **Site 3 of 3 in cluster S**

Relative: **Lower**

Actual: **1334 ft.**

San Bern. Co. Permit:

Name:	R & R ROTARY
Address:	933 CENTRAL D
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0005182
Owner:	SINGH, RICHARD L. & RUBY
Permit Number:	PT0010117
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	05/31/2007

Name:	R & R ROTARY
Address:	933 CENTRAL D
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0005182
Owner:	SINGH, RICHARD L. & RUBY
Permit Number:	PT0010118
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	05/31/2007

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129 **LAND CARE INC.** **LUST** **S104752290**
South **8475 LOMA PL** **Cortese** **N/A**
1/4-1/2 **UPLAND, CA 91786** **HIST CORTESE**
0.305 mi. **San Bern. Co. Permit**
1612 ft. **CERS**

Relative: **Lower**

Actual: **1278 ft.**

LUST REG 8:

Name:	LAND CARE INC.
Address:	8475 LOMA PL
City:	UPLAND
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed

LAND CARE INC. (Continued) **S104752290**

Case Number:	083603600T
Local Case Num:	99140
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	ARROW ROUTE
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100625
How Stopped Date:	11/22/1999
Enter Date:	1/26/2000
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	11/22/1999
Enforcement Date:	Not reported
Close Date:	4/21/2000
Date Prelim Assessment Workplan Submitted:	12/9/1999
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:	1/26/2000
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.100893
Longitude:	-117.685865
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	2
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
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:	No

Summary: Not reported

LUST:

Name:	LAND CARE INC.
Address:	8475 LOMA PL
City,State,Zip:	UPLAND, CA 91786

LAND CARE INC. (Continued) **S104752290**

Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100625
Global Id:	T0607100625
Latitude:	34.0999874
Longitude:	-117.6857081
Status:	Completed - Case Closed
Status Date:	04/21/2000
Case Worker:	Not reported
RB Case Number:	083603600T
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	99140
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607100625
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:	T0607100625
Action Type:	Other
Date:	11/29/1999
Action:	Leak Reported

Global Id:	T0607100625
Action Type:	ENFORCEMENT
Date:	04/21/2000
Action:	Closure/No Further Action Letter

Global Id:	T0607100625
Action Type:	Other
Date:	11/22/1999
Action:	Leak Discovery

Global Id:	T0607100625
Action Type:	REMEDIATION
Date:	11/22/1999
Action:	Excavation

Global Id:	T0607100625
Action Type:	Other
Date:	11/22/1999
Action:	Leak Stopped

LUST:

Global Id:	T0607100625
Status:	Open - Case Begin Date
Status Date:	11/22/1999

LAND CARE INC. (Continued) **S104752290**

Global Id: T0607100625
Status: Open - Site Assessment
Status Date: 12/09/1999

Global Id: T0607100625
Status: Completed - Case Closed
Status Date: 04/21/2000

CORTESE:
Name: LAND CARE INC.
Address: 8475 LOMA PL
City,State,Zip: UPLAND, CA 91786
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100625
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

HIST CORTESE:
edr_fname: LAND CARE INC.
edr_fadd1: 8475
City,State,Zip: UPLAND, CA 91786
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083603600T

San Bern. Co. Permit:
Name: LANDCARE, INC
Address: 8475 LOMA PL
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004377
Owner: WALTON, JAMIE
Permit Number: PT0008855
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: INACTIVE
Expiration Date: 04/30/2019

LAND CARE INC. (Continued) **S104752290**

Name: LANDCARE, INC
Address: 8475 LOMA PL
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0004377
Owner: WALTON, JAMIE
Permit Number: PT0008856
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/2016

CERS:
Name: LAND CARE INC.
Address: 8475 LOMA PL
City,State,Zip: UPLAND, CA 91786
Site ID: 204196
CERS ID: T0607100625
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

Name: LANDCARE, INC
Address: 8475 LOMA PL
City,State,Zip: UPLAND, CA 91786
Site ID: 43382
CERS ID: 10041370
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 43382
Site Name: LANDCARE, INC
Violation Date: 08-28-2017
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 and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 08/23/2018. NON INSPECTION RELATED VIOLATION
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 43382
Site Name: LANDCARE, INC
Violation Date: 11-10-2015
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

LAND CARE INC. (Continued) **S104752290**

storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/23/2018. Facility did not submit a Business Plan to CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-22-2018
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: Other/Unknown
Eval Date: 08-28-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS ENFORCEMENT PROJECT - ENTER VIOLATION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-10-2015
Violations Found: No
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: 11-10-2015
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
Eval Source: CERS

Enforcement Action:
Site ID: 43382
Site Name: LANDCARE, INC
Site Address: 8475 LOMA PL
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 11-10-2015
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

LAND CARE INC. (Continued) **S104752290**

Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 43382
Facility Name: LANDCARE, INC
Env Int Type Code: HMBP
Program ID: 10041370
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.100106
Longitude: -117.685672

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: WALTON, JAMIE
Entity Title: Not reported
Affiliation Address: 8475 LOMA PLACE
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91786-4237
Affiliation Phone: (909) 985-7155

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: Environmental Contact
Entity Name: JOSE VALDEZ
Entity Title: Not reported
Affiliation Address: 8475 LOMA PLACE
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: JOSE VALDEZ
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: (951) 830-4555

Affiliation Type Desc: Parent Corporation
Entity Name: LANDCARE, INC

LAND CARE INC. (Continued) **S104752290**

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:	8475 LOMA PL
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

T130 **DINEEN TRUCKING** **LUST** **S101619062**
NW **1284 AIRPORT DR** **SWEEPS UST** **N/A**
1/4-1/2 **UPLAND, CA 91786** **CA FID UST**
0.339 mi. **Cortese**
1790 ft. **Site 1 of 2 in cluster T** **HIST CORTESE**
WDS

Relative:
Higher

Actual:
1391 ft.

LUST REG 8:

Name:	DINEEN TRUCKING
Address:	1284 AIRPORT DR
City:	UPLAND
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083600599T
Local Case Num:	87064
Case Type:	Soil only
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	FOOTHILL
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Test
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0607100057
How Stopped Date:	Not reported
Enter Date:	8/28/1987
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	Not reported
Enforcement Date:	Not reported
Close Date:	5/27/1988
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	8/28/1987
Date Remediation Plan Submitted:	Not reported

DINEEN TRUCKING (Continued) **S101619062**

Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	8/28/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.1090184
Longitude:	-117.6910699
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	DR
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:	DINEEN TRUCKING INC.
Address:	1284 AIRPORT DR
City:	UPLAND
Status:	Active
Comp Number:	9733
Number:	9
Board Of Equalization:	44-020220
Referral Date:	07-07-88
Action Date:	07-07-88
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-009733-000001
Tank Status:	A
Capacity:	5000
Active Date:	07-07-88
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	4

Name:	DINEEN TRUCKING INC.
Address:	1284 AIRPORT DR
City:	UPLAND
Status:	Active
Comp Number:	9733
Number:	9
Board Of Equalization:	44-020220

DINEEN TRUCKING (Continued) **S101619062**

Referral Date: 07-07-88
Action Date: 07-07-88
Created Date: 02-29-88
Owner Tank Id: 3
SWRCB Tank Id: 36-000-009733-000002
Tank Status: A
Capacity: 8000
Active Date: 07-07-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: DINEEN TRUCKING INC.
Address: 1284 AIRPORT DR
City: UPLAND
Status: Active
Comp Number: 9733
Number: 9
Board Of Equalization: 44-020220
Referral Date: 07-07-88
Action Date: 07-07-88
Created Date: 02-29-88
Owner Tank Id: 4
SWRCB Tank Id: 36-000-009733-000003
Tank Status: A
Capacity: 4000
Active Date: 07-07-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: DINEEN TRUCKING INC.
Address: 1284 AIRPORT DR
City: UPLAND
Status: Active
Comp Number: 9733
Number: 9
Board Of Equalization: 44-020220
Referral Date: 07-07-88
Action Date: 07-07-88
Created Date: 02-29-88
Owner Tank Id: 5
SWRCB Tank Id: 36-000-009733-000004
Tank Status: A
Capacity: 5000
Active Date: 07-07-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36000259
Regulated By: UTNKA
Regulated ID: 00009733

DINEEN TRUCKING (Continued) **S101619062**

Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1284 AIRPORT DR
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: DINEEN TRUCKING
Address: 1284 AIRPORT DR
City,State,Zip: UPLAND, CA 91786
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100057
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

HIST CORTESE:
edr_fname: DINEEN TRUCKING
edr_fadd1: 1284
City,State,Zip: UPLAND, CA 91786
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083600599T

WDS:
Name: DINEEN TRUCKING INC
Address: 1284 Airport Dr
City: UPLAND
Facility ID: Santa Ana River 36I018208
Facility Type: Industrial - Facility that treats and/or disposes of liquid or

DINEEN TRUCKING (Continued) **S101619062**

	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:	9099859718
Facility Contact:	Ken Beck
Agency Name:	DINEEN TRUCKING INC
Agency Address:	1284 Airport Dr
Agency City,St,Zip:	Upland 917862156
Agency Contact:	Ken Beck
Agency Telephone:	9099859718
Agency Type:	?
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.

T131 **DINEEN TRUCKING INC** **LUST** **U001570666**
NW **1284 AIRPORT DR** **HIST UST** **N/A**
1/4-1/2 **UPLAND, CA 91786** **NPDES**
0.339 mi. **San Bern. Co. Permit**
1790 ft. **Site 2 of 2 in cluster T** **CERS**
HWTS

Relative:
Higher

Actual:
1391 ft.

LUST:

Name:	DINEEN TRUCKING
Address:	1284 AIRPORT DR
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=T0607100057

DINEEN TRUCKING INC (Continued) **U001570666**

Global Id: T0607100057
Latitude: 34.1090184
Longitude: -117.6910699
Status: Completed - Case Closed
Status Date: 05/27/1988
Case Worker: Not reported
RB Case Number: 083600599T
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 87064
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0607100057
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: T0607100057
Action Type: Other
Date: 07/24/1987
Action: Leak Reported

LUST:
Global Id: T0607100057
Status: Open - Case Begin Date
Status Date: 07/24/1987

Global Id: T0607100057
Status: Open - Site Assessment
Status Date: 08/28/1987

Global Id: T0607100057
Status: Completed - Case Closed
Status Date: 05/27/1988

HIST UST:
Name: DINEEN TRUCKING INC
Address: 1284 AIRPORT DR
City,State,Zip: UPLAND, CA 91786
File Number: 00029DB1
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029DB1.pdf
Region: STATE
Facility ID: 00000009733
Facility Type: Other
Other Type: TRUCKING
Contact Name: Not reported
Telephone: 7149859718

DINEEN TRUCKING INC (Continued) **U001570666**

Owner Name: DINEEN TRUCKING INC.
Owner Address: 1284 AIRPORT DR.
Owner City,St,Zip: UPLAND, CA 91786
Total Tanks: 0004

Tank Num: 001
Container Num: 002
Year Installed: 1976
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: 003
Year Installed: 1976
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 003
Container Num: 004
Year Installed: 1976
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 004
Container Num: 005
Year Installed: 1976
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Visual

Click here for Geo Tracker PDF:

NPDES:
Name: DINEEN TRUCKING INC
Address: 1284 AIRPORT DR
City,State,Zip: UPLAND, CA 91786
Facility Status: Terminated
NPDES Number: CAS000001
Region: 8
Agency Number: 0
Regulatory Measure ID: 213710
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 8 36I018208
Regulatory Measure Type: Enrollee
Program Type: Industrial

DINEEN TRUCKING INC (Continued) **U001570666**

Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/24/2003
Termination Date Of Regulatory Measure:	05/29/2020
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1284 Airport Dr
Discharge Name:	Dineen Trucking 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:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213710
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I018208
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/24/2003
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Dineen Trucking Inc
Discharge Address:	1284 Airport Dr
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

DINEEN TRUCKING INC (Continued) **U001570666**

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:	213710
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I018208
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:	06/24/2003

DINEEN TRUCKING INC (Continued) **U001570666**

Status:	Active
Status Date:	11/12/2015
Place Size:	2
Place Size Unit:	Acres
Contact:	Brenda Beck
Contact Title:	CEO
Contact Phone:	909-985-9718
Contact Phone Ext:	Not reported
Contact Email:	b.dineen@hotmail.com
Operator Name:	Dineen Trucking Inc
Operator Address:	1284 Airport Dr
Operator City:	Upland
Operator State:	California
Operator Zip:	91786
Operator Contact:	Brenda Beck
Operator Contact Title:	CEO
Operator Contact Phone:	909-985-9718
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	b.dineen@hotmail.com
Operator Type:	Other
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:	909-985-9718
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:	San Gabriel River
Certifier:	Brenda McClendon
Certifier Title:	CEO
Certification Date:	15-JUL-15
Primary Sic:	4212-Local Trucking Without Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name: DINEEN TRUCKING INC

DINEEN TRUCKING INC (Continued) **U001570666**

Address:	1284 AIRPORT DR
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 36I018208
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:	Terminated
Status Date:	06/02/2020
Operator Name:	Dineen Trucking Inc
Operator Address:	1284 Airport Dr
Operator City:	Upland
Operator State:	California
Operator Zip:	91786

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	213710
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I018208
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/24/2003
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Dineen Trucking Inc
Discharge Address:	1284 Airport Dr
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

DINEEN TRUCKING INC (Continued) **U001570666**

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
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	213710
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I018208

DINEEN TRUCKING INC (Continued) **U001570666**

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:	06/24/2003
Status:	Active
Status Date:	11/12/2015
Place Size:	2
Place Size Unit:	Acres
Contact:	Brenda Beck
Contact Title:	CEO
Contact Phone:	909-985-9718
Contact Phone Ext:	Not reported
Contact Email:	b.dineen@hotmail.com
Operator Name:	Dineen Trucking Inc
Operator Address:	1284 Airport Dr
Operator City:	Upland
Operator State:	California
Operator Zip:	91786
Operator Contact:	Brenda Beck
Operator Contact Title:	CEO
Operator Contact Phone:	909-985-9718
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	b.dineen@hotmail.com
Operator Type:	Other
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:	909-985-9718
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

DINEEN TRUCKING INC (Continued) **U001570666**

Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Gabriel River
Certifier:	Brenda McClendon
Certifier Title:	CEO
Certification Date:	15-JUL-15
Primary Sic:	4212-Local Trucking Without Storage
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	DINEEN TRUCKING INC
Address:	1284 AIRPORT DR
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0002744
Owner:	DINEEN TRUCKING INC
Permit Number:	PT0027030
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	INACTIVE
Expiration Date:	08/31/2020

Name:	DINEEN TRUCKING INC
Address:	1284 AIRPORT DR
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0002744
Owner:	DINEEN TRUCKING INC
Permit Number:	PT0002527
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	08/31/2020

Name:	DINEEN TRUCKING INC
Address:	1284 AIRPORT DR
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0002744
Owner:	DINEEN TRUCKING INC
Permit Number:	PT0002528
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	08/31/2020

CERS:

Name:	DINEEN TRUCKING
Address:	1284 AIRPORT DR
City,State,Zip:	UPLAND, CA 91786
Site ID:	236166
CERS ID:	T0607100057
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

DINEEN TRUCKING INC (Continued) **U001570666**

Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903

Name: DINEEN TRUCKING INC
Address: 1284 AIRPORT DR
City,State,Zip: UPLAND, CA 91786
Site ID: 25313
CERS ID: 221393
CERS Description: Industrial Facility Storm Water

Violations:
Site ID: 25313
Site Name: DINEEN TRUCKING INC
Violation Date: 07-25-2011
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: 2010-2011 Annual Report non-submission: Annual report was received by the Regional Board or the State Board by 07/01/2011. 1st Notice of Non-Compliance sent out to facility address, and a copy letter sent to the owner, provided in the SMARTS database, on 07/25/2011.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-01-2001
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: This is an old migrating record from the old database: No SWPPP on site. K. Beck stated that it was in the process of being prepared. No monitoring records were available. No samples were taken. The site has rock and sand piles. The perimeter is lined with large boulders so that water from the site may flow past the boulders and pond offsite. K. Beck says he is going to regrade the site so that water collects just south of the entrance. No SWPPP, no monitoring records, no samples collected.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-04-2005
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: This is a migrating record from an old database: Inspectors from the City of Upland were refused entry the day before. Staff inspected site. Large boulders were placed along the perimeter. Some water that flowed from the site accumulated offsite. The SWPPP had not been prepared. Staff requested the SWPPP be onsite. Staff reinforced inspection policy. No SWPPP
Eval Division: Water Boards

DINEEN TRUCKING INC (Continued) **U001570666**

Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Complaint Inspection
Eval Date: 10-01-2019
Violations Found: No
Eval Type: Industrial Storm Water Complaint Inspection
Eval Notes: See attachments for the complaint inspection report and photos.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Enforcement Action:
Site ID: 25313
Site Name: DINEEN TRUCKING INC
Site Address: 1284 AIRPORT DR
Site City: UPLAND
Site Zip: 91786
Enf Action Date: 07-25-2011
Enf Action Type: Industrial Storm Water Enforcement
Enf Action Description: Industrial Storm Water Enforcement
Enf Action Notes: 2010-2011 Annual Report non-submission: Annual report was received by the Regional Board or the State Board by 07/01/2011. 1st Notice of Non-Compliance sent out to facility address, and a copy letter sent to the owner, provided in the SMARTS database, on 07/25/2011.
Enf Action Division: Water Boards
Enf Action Program: INDSTW
Enf Action Source: SMARTS

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Dineen Trucking Inc
Entity Title: Operator
Affiliation Address: 1284 Airport Dr
Affiliation City: Upland
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91786
Affiliation Phone: Not reported

HWTS:
Name: DINEEN TRUCKING INC
Address: 1284 AIRPORT DR
Address 2: Not reported
City,State,Zip: UPLAND, CA 917860000
EPA ID: CAD029568003
Inactive Date: 01/01/1900
Create Date: 04/08/1983
Last Act Date: 08/11/1993
Mailing Name: Not reported
Mailing Address: 1284 AIRPORT DR
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 917860000
Owner Name: --
Owner Address: --

DINEEN TRUCKING INC (Continued) **U001570666**

Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	PAT DINEEN
Contact Address:	--
Contact Address 2:	Not reported
City,State,Zip:	--, 99 --

U132 **JOHN DOSH** **LUST** **S101619072**
SSW **1853 W ARROW HWY** **SWEEPS UST** **N/A**
1/4-1/2 **UPLAND, CA 91786** **CA FID UST**
0.367 mi. **Cortese**
1938 ft. **Site 1 of 2 in cluster U** **CERS**

Relative: Lower

Actual: 1268 ft.

LUST:

Name:	DOSH PROPERTY
Address:	1853 W ARROW RTE
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=T0607100338
Global Id:	T0607100338
Latitude:	34.0993
Longitude:	-117.6869
Status:	Completed - Case Closed
Status Date:	09/02/1994
Case Worker:	CB
RB Case Number:	083602506T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	94036
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0607100338
Contact Type:	Local Agency Caseworker
Contact Name:	CURTIS BRUNDAGE
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 S. E STREET
City:	SAN BERNARDINO
Email:	cbrundage@sbcfire.org
Phone Number:	Not reported

Global Id:	T0607100338
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:	T0607100338
Action Type:	ENFORCEMENT
Date:	09/02/1994
Action:	Closure/No Further Action Letter

JOHN DOSH (Continued) **S101619072**

Global Id: T0607100338
Action Type: Other
Date: 06/22/1994
Action: Leak Reported

Global Id: T0607100338
Action Type: Other
Date: 04/14/1994
Action: Leak Discovery

Global Id: T0607100338
Action Type: Other
Date: 04/14/1994
Action: Leak Stopped

LUST:
Global Id: T0607100338
Status: Open - Case Begin Date
Status Date: 04/14/1994

Global Id: T0607100338
Status: Open - Site Assessment
Status Date: 05/23/1994

Global Id: T0607100338
Status: Completed - Case Closed
Status Date: 09/02/1994

SWEEPS UST:
Name: JOHN DOSH
Address: 1853 W ARROW HWY
City: UPLAND
Status: Not reported
Comp Number: 44208
Number: Not reported
Board Of Equalization: 44-021047
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-044208-000001
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 3

Name: JOHN DOSH
Address: 1853 W ARROW HWY
City: UPLAND
Status: Not reported
Comp Number: 44208
Number: Not reported

JOHN DOSH (Continued) **S101619072**

Board Of Equalization: 44-021047
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-044208-000002
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Name: JOHN DOSH
Address: 1853 W ARROW HWY
City: UPLAND
Status: Not reported
Comp Number: 44208
Number: Not reported
Board Of Equalization: 44-021047
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-044208-000003
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36001514
Regulated By: UTNKA
Regulated ID: 00044208
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149467256
Mail To: Not reported
Mailing Address: 1853 W 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: DOSH PROPERTY
Address: 1853 W ARROW RTE

JOHN DOSH (Continued) **S101619072**

City,State,Zip:	UPLAND, CA 91786
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100338
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

CERS:

Name:	DOSH PROPERTY
Address:	1853 W ARROW RTE
City,State,Zip:	UPLAND, CA 91786
Site ID:	242903
CERS ID:	T0607100338
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	CURTIS BRUNDAGE - SAN BERNARDINO COUNTY
Entity Title:	Not reported
Affiliation Address:	620 S. E STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

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

U133 **DOSH PROPERTY** **LUST** **S102428911**
SSW **1853 ARROW RT** **HIST CORTESE** **N/A**
1/4-1/2 **UPLAND, CA 91678**
0.367 mi.
1938 ft. **Site 2 of 2 in cluster U**

Relative: LUST REG 8:
Lower

Actual:
1268 ft.

Name:	DOSH PROPERTY
Address:	1853 ARROW RTE
City:	UPLAND
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602506T
Local Case Num:	94036
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:	UNK
Leak Source:	UNK
Global ID:	T0607100338
How Stopped Date:	4/14/1994
Enter Date:	8/29/1994
Date Confirmation of Leak Began:	5/23/1994
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/14/1994
Enforcement Date:	Not reported
Close Date:	9/2/1994
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:	8/29/1994
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.1728408
Longitude:	-118.3878861
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:	CB5
Lead Agency:	Local Agency

DOSH PROPERTY (Continued) **S102428911**

Local Agency: 36000L
Hydr Basin #: SAN FERNANDO VALLEY
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: TWO 3,000 GALLON DIESEL AND GASOLINE TANK REMOVED 4/14/94. ENCLOSED CASE CLOSURE SUMMARY ON 8/9/94. MINOR SOIL CONTAMINATION

HIST CORTESE:
edr_fname: DOSH PROPERTY
edr_fadd1: 1853 ARROW RT
City,State,Zip: UPLAND, CA 91678
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083602506T

V134 **CABLE AIRPORT** **SEMS 1023692413**
North **1749 W. 13TH STREET** **FINDS CAN000904205**
1/4-1/2 **UPLAND, CA 91786** **ECHO**
0.393 mi.
2075 ft. **Site 1 of 2 in cluster V**

Relative: **Higher**
Actual: **1422 ft.**

SEMS:
Site ID: 0904205
EPA ID: CAN000904205
Name: CABLE AIRPORT
Address: 1749 W. 13TH STREET
Address 2: Not reported
City,State,Zip: UPLAND, CA 91786
Cong District: Not reported
FIPS Code: 06071
Latitude: Not reported
Longitude: Not reported
FF: N
NPL: Not on the NPL
Non NPL Status: SI Start Needed

SEMS Detail:
Region: 09
Site ID: 0904205
EPA ID: CAN000904205
Site Name: CABLE AIRPORT
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 2017-10-01 05:00:00
Finish Date: 10/1/2017 5:00:00 AM
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 09
Site ID: 0904205
EPA ID: CAN000904205

CABLE AIRPORT (Continued) **1023692413**

Site Name:	CABLE AIRPORT
NPL:	N
FF:	N
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	2017-10-01 05:00:00
Finish Date:	9/25/2018 5:00:00 AM
Qual:	L
Current Action Lead:	St Perf
Region:	09
Site ID:	0904205
EPA ID:	CAN000904205
Site Name:	CABLE AIRPORT
NPL:	N
FF:	N
OU:	00
Action Code:	HX
Action Name:	PRE-CERC
SEQ:	1
Start Date:	2017-10-01 05:00:00
Finish Date:	6/1/2018 4:00:00 AM
Qual:	SI
Current Action Lead:	St Perf

FINDS:
Registry ID: 110070089444

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.
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.
SUPERFUND (NON-NPL)

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1023692413
Registry ID:	110070089444
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110070089444
Name:	CABLE AIRPORT

CABLE AIRPORT (Continued) **1023692413**

Address: 1749 W 13TH ST
City,State,Zip: UPLAND, CA 91786

V135 **CABLE AIRPORT** **ENVIROSTOR** **S113747981**
North **1749 WEST 13TH STREET** **EMI** **N/A**
1/4-1/2 **UPLAND, CA 91786** **HAZNET**
0.393 mi. **NPDES**
2075 ft. **Site 2 of 2 in cluster V** **San Bern. Co. Permit**
CIWQS
Relative: **CERS**
Higher **HWTS**

Actual:
1422 ft.

ENVIROSTOR:

Name:	CABLE AIRPORT
Address:	1749 WEST 13TH STREET
City,State,Zip:	UPLAND, CA 91786
Facility ID:	60002592
Status:	Active
Status Date:	12/18/2017
Site Code:	401805
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Joseph Cully
Supervisor:	Patrick Hsieh
Division Branch:	Cleanup Cypress
Assembly:	41
Senate:	25
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	34.1106
Longitude:	-117.6841
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	AQUI, SOIL
Alias Name:	401805
Alias Type:	Project Code (Site Code)
Alias Name:	60002592
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	06/19/2018
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported

CABLE AIRPORT (Continued) **S113747981**

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

EMI:

Name:	CABLE AIRPORT
Address:	1749 W 13TH ST
City,State,Zip:	UPLAND, CA 91786
Year:	2009
County Code:	36
Air Basin:	SC
Facility ID:	180020
Air District Name:	SC
SIC Code:	4581
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:	6.7317905869999999
Reactive Organic Gases Tons/Yr:	5.9749534689999999
Carbon Monoxide Emissions Tons/Yr:	261.46298473000002
NOX - Oxides of Nitrogen Tons/Yr:	3.1396116310000002
SOX - Oxides of Sulphur Tons/Yr:	0.63356890300000002
Particulate Matter Tons/Yr:	5.9636397033960398
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5.4575887999999999

Name:	CABLE AIRPORT
Address:	1749 W 13TH ST
City,State,Zip:	UPLAND, CA 91786
Year:	2010
County Code:	36
Air Basin:	SC
Facility ID:	180020
Air District Name:	SC
SIC Code:	4581
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:	27.024047599999999
Reactive Organic Gases Tons/Yr:	24.084601200000002
Carbon Monoxide Emissions Tons/Yr:	185.97851360000001
NOX - Oxides of Nitrogen Tons/Yr:	3.5800116000000002
SOX - Oxides of Sulphur Tons/Yr:	0.46497880000000003
Particulate Matter Tons/Yr:	3.6012570084717699
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3.2320904000000001

Name:	CABLE AIRPORT
Address:	1749 W 13TH ST
City,State,Zip:	UPLAND, CA 91786
Year:	2011
County Code:	36
Air Basin:	SC
Facility ID:	180020
Air District Name:	SC
SIC Code:	4581
Air District Name:	SOUTH COAST AQMD

CABLE AIRPORT (Continued) **S113747981**

Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.731790587
Reactive Organic Gases Tons/Yr:	5.974953469
Carbon Monoxide Emissions Tons/Yr:	261.46298473
NOX - Oxides of Nitrogen Tons/Yr:	3.139611631
SOX - Oxides of Sulphur Tons/Yr:	0.633568903
Particulate Matter Tons/Yr:	5.9636397034
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5.4575888

Name:	CABLE AIRPORT
Address:	1749 W 13TH ST
City,State,Zip:	UPLAND, CA 91786
Year:	2012
County Code:	36
Air Basin:	SC
Facility ID:	180020
Air District Name:	SC
SIC Code:	4581
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:	6.7318
Reactive Organic Gases Tons/Yr:	5.9749
Carbon Monoxide Emissions Tons/Yr:	261.463
NOX - Oxides of Nitrogen Tons/Yr:	3.1396
SOX - Oxides of Sulphur Tons/Yr:	0.6336
Particulate Matter Tons/Yr:	5.963655701
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5.4576

Name:	CABLE AIRPORT
Address:	1749 W 13TH ST
City,State,Zip:	UPLAND, CA 91786
Year:	2014
County Code:	36
Air Basin:	SC
Facility ID:	180020
Air District Name:	SC
SIC Code:	4581
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:	6.732
Reactive Organic Gases Tons/Yr:	5.975
Carbon Monoxide Emissions Tons/Yr:	261.463
NOX - Oxides of Nitrogen Tons/Yr:	3.14
SOX - Oxides of Sulphur Tons/Yr:	0.633
Particulate Matter Tons/Yr:	5.963639703
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5.458

Name:	CABLE AIRPORT
Address:	1749 W 13TH ST
City,State,Zip:	UPLAND, CA 91786
Year:	2017
County Code:	36
Air Basin:	SC
Facility ID:	180020

CABLE AIRPORT (Continued) **S113747981**

Air District Name:	SC
SIC Code:	4581
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:	7.7574065379
Reactive Organic Gases Tons/Yr:	7.4297499475
Carbon Monoxide Emissions Tons/Yr:	265.23691688
NOX - Oxides of Nitrogen Tons/Yr:	3.016458017
SOX - Oxides of Sulphur Tons/Yr:	0.64939419951
Particulate Matter Tons/Yr:	5.7272470188
Part. Matter 10 Micrometers and Smllr Tons/Yr:	5.5289135452

HAZNET:

Name:	FOOTHILL AIRCRAFT INC
Address:	1749 W 13TH ST
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
Contact:	CURTIS CABLE
Telephone:	9099851977
Mailing Name:	Not reported
Mailing Address:	1749 W 13TH ST
Year:	2018
Gepaid:	CAL000238178
TSD EPA ID:	CAL000330453
CA Waste Code:	352 - Other organic solids
Disposal Method:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.30000
Year:	2017
Gepaid:	CAL000238178
TSD EPA ID:	CAL000330453
CA Waste Code:	352 - Other organic solids
Disposal Method:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Tons:	0.25

Additional Info:

Year:	2017
Gen EPA ID:	CAL000238178
Shipment Date:	20170926
Creation Date:	6/13/2018 18:30:51
Receipt Date:	20170926
Manifest ID:	017879138JJK
Trans EPA ID:	CAL000330453
Trans Name:	CLEANTECH ENVIRONMENTAL
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000330453
Trans Name:	CLEANTECH ENVIRONMENTAL INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported

CABLE AIRPORT (Continued) **S113747981**

Meth Code:	H010 - Metals Recovery Including Retoring,Smelting,Chemicals,Ect
Quantity Tons:	0.25
Waste Quantity:	500
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

NPDES:

Name:	CALE AIRPORT APRON IMPROVMENT PROJECT
Address:	1749 WEST 13TH STREET
City,State,Zip:	UPLAND, CA 91786
Facility Status:	Active
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	501407
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 36C384750
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/01/2018
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1749 W 13th St
Discharge Name:	Cable Land Co
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:	CALE AIRPORT APRON IMPROVMENT PROJECT
Address:	1749 WEST 13TH STREET
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 36C384750
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

CABLE AIRPORT (Continued) **S113747981**

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:	01/29/2020
Operator Name:	Cable Land Co
Operator Address:	1749 W 13th St
Operator City:	Upland
Operator State:	California
Operator Zip:	91786

San Bern. Co. Permit:

Name:	ELK RIVER AVIATORS, INC. (NO DBA NAME)
Address:	1749 W 13TH ST 9 A
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006349
Owner:	WILSON, KENT
Permit Number:	PT0001061
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	12/31/2019

Name:	ELK RIVER AVIATORS, INC. (NO DBA NAME)
Address:	1749 W 13TH ST 9 A
City,State,Zip:	UPLAND, CA 91786
Region:	SAN BERNARDINO
Facility ID:	FA0006349
Owner:	WILSON, KENT
Permit Number:	PT0021462
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	12/31/2019

CIWQS:

Name:	CABLE AIRPORT
Address:	1749 W 13TH ST
City,State,Zip:	UPLAND, CA 91786
Agency:	Cable Land Co
Agency Address:	1749 W 13th St, Upland, CA 91786
Place/Project Type:	Industrial - Airports, Flying Fields, and Airport Terminal Services
SIC/NAICS:	4581
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I001965
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/30/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported

CABLE AIRPORT (Continued) **S113747981**

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:	34.11051
Longitude:	-117.68326

CERS:

Name:	CABLE AIRPORT
Address:	1749 W 13TH ST
City,State,Zip:	UPLAND, CA 91786
Site ID:	528194
CERS ID:	212437
CERS Description:	Industrial Facility Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Cable Land Co
Entity Title:	Operator
Affiliation Address:	1749 W 13th St
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

Name:	CALE AIRPORT APRON IMPROVMENT PROJECT
Address:	1749 WEST 13TH STREET
City,State,Zip:	UPLAND, CA 91786
Site ID:	528279
CERS ID:	866837
CERS Description:	Construction Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Cable Land Co
Entity Title:	Operator
Affiliation Address:	1749 W 13th St
Affiliation City:	Upland
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91786
Affiliation Phone:	Not reported

HWTS:

Name:	FOOTHILL AIRCRAFT INC
Address:	1749 W 13TH ST
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 917860000
EPA ID:	CAL000238178
Inactive Date:	Not reported
Create Date:	01/14/2002
Last Act Date:	07/13/2020

CABLE AIRPORT (Continued) **S113747981**

Mailing Name: Not reported
Mailing Address: 1749 W 13TH ST
Mailing Address 2: Not reported
Mailing City,State,Zip: UPLAND, CA 917860000
Owner Name: FOOTHILL AIRCRAFT INC
Owner Address: 1749 W 13TH ST
Owner Address 2: Not reported
Owner City,State,Zip: UPLAND, CA 917860000
Contact Name: CURTIS CABLE
Contact Address: 1749 W 13TH ST
Contact Address 2: Not reported
City,State,Zip: UPLAND, CA 91786

NAICS:
EPA ID: CAL000238178
Create Date: 2006-11-27 18:30:15.000
NAICS Code: 488119
NAICS Description: Other Airport Operations
Issued EPA ID Date: 2002-01-14 00:00:00
Inactive Date: Not reported
Facility Name: FOOTHILL AIRCRAFT INC
Facility Address: 1749 W 13TH ST
Facility Address 2: Not reported
Facility City: UPLAND
Facility County: Not reported
Facility State: CA
Facility Zip: 917860000

W136 **WESTON E. MONTGOMERY FUEL** **LUST** **S102441224**
WSW **2085 11TH** **HIST CORTESE** **N/A**
1/4-1/2 **UPLAND, CA 91786**
0.457 mi.
2412 ft. **Site 1 of 2 in cluster W**

Relative:
Lower

Actual:
1301 ft.

LUST REG 8:
Name: WESTON E. MONTGOMERY FUEL
Address: 2085 11TH ST
City: UPLAND
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083602753T
Local Case Num: 95058
Case Type: Soil only
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Not reported
Cross Street: Not reported
Enf Type: Not reported
Funding: Not reported
How Discovered: Not reported
How Stopped: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Global ID: T0607100397
How Stopped Date: Not reported

WESTON E. MONTGOMERY FUEL (Continued) **S102441224**

Enter Date:	12/19/1995
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/28/1995
Enforcement Date:	Not reported
Close Date:	1/8/1996
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:	12/19/1995
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.1032976
Longitude:	-117.6908148
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	WDM
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

HIST CORTESE:

edr_fname:	WESTON E. MONTGOMERY FUEL
edr_fadd1:	2085 11TH
City,State,Zip:	UPLAND, CA 91786
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602753T

W137 **WESTON E. MONTGOMERY FUEL** **LUST** **U001570646**
WSW **2085 W 11TH ST** **HIST UST** **N/A**
1/4-1/2 **UPLAND, CA 91786** **Cortese**
0.457 mi. **CERS**
2412 ft. **Site 2 of 2 in cluster W**

Relative: LUST:
Lower

Name:	WESTON E. MONTGOMERY FUEL
Address:	2085 W 11TH ST
City,State,Zip:	UPLAND, CA 91786

Actual:
1301 ft.

WESTON E. MONTGOMERY FUEL (Continued) **U001570646**

Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100397
Global Id:	T0607100397
Latitude:	34.1032976
Longitude:	-117.6908148
Status:	Completed - Case Closed
Status Date:	01/08/1996
Case Worker:	JC
RB Case Number:	083602753T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	95058
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0607100397
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

LUST:

Global Id:	T0607100397
Action Type:	Other
Date:	10/25/1995
Action:	Leak Reported

Global Id:	T0607100397
Action Type:	Other
Date:	09/28/1995
Action:	Leak Discovery

LUST:

Global Id:	T0607100397
Status:	Open - Case Begin Date
Status Date:	09/28/1995

Global Id:	T0607100397
Status:	Completed - Case Closed
Status Date:	01/08/1996

HIST UST:

Name:	11TH STREET YARD
Address:	2085 W 11TH ST
City,State,Zip:	UPLAND, CA 91786
File Number:	0002AA60
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002AA60.pdf
Region:	STATE
Facility ID:	00000038926

WESTON E. MONTGOMERY FUEL (Continued) **U001570646**

Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MONTY MONTGOMERY
Telephone:	7146268614
Owner Name:	WESTON E. MONTGOMERY
Owner Address:	3232 PADAU AVE.
Owner City,St,Zip:	CLAREMONT, CA 91711
Total Tanks:	0003
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1983
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1983
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	5/16
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

CORTESE:

Name:	WESTON E. MONTGOMERY FUEL
Address:	2085 W 11TH ST
City,State,Zip:	UPLAND, CA 91786
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100397
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

WESTON E. MONTGOMERY FUEL (Continued) **U001570646**

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

CERS:

Name:	WESTON E. MONTGOMERY FUEL
Address:	2085 W 11TH ST
City,State,Zip:	UPLAND, CA 91786
Site ID:	205000
CERS ID:	T0607100397
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

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

X138 **UPLAND CITY YARD** **LUST** **S104751605**
NNE **1370** **HIST CORTESE** **N/A**
1/4-1/2 **UPLAND, CA 91786**
0.490 mi.
2586 ft. **Site 1 of 2 in cluster X**

Relative: **Higher**

Actual: **1437 ft.**

LUST REG 8:

Name:	UPLAND CITY YARD
Address:	1370 BENSON AVE
City:	UPLAND
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083603644T
Local Case Num:	99108
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	13TH STREET
Enf Type:	NOR
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0607100633
How Stopped Date:	9/28/1998
Enter Date:	3/9/2000
Date Confirmation of Leak Began:	Not reported

UPLAND CITY YARD (Continued) **S104751605**

Date Preliminary Assessment Began:	Not reported
Discover Date:	9/28/1998
Enforcement Date:	Not reported
Close Date:	8/23/2002
Date Prelim Assessment Workplan Submitted:	8/10/1999
Date Pollution Characterization Began:	5/18/2000
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	5/18/2000
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/9/2000
GW Qualifies:	Not reported
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.1105257
Longitude:	-117.6320603
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	.05
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
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:	No

Summary: UNDER INVESTIGATION

HIST CORTESE:

edr_fname:	UPLAND CITY YARD
edr_fadd1:	1370
City,State,Zip:	UPLAND, CA 91786
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083603644T

X139 **UPLAND CITY YARD** **LUST** **S103629324**
NNE **1370 N BENSON AVE** **CERS HAZ WASTE** **N/A**
1/4-1/2 **UPLAND, CA 91786** **Cortese**
0.490 mi. **NPDES**
2586 ft. **Site 2 of 2 in cluster X** **San Bern. Co. Permit**
CERS

Relative:
Higher

Actual:
1437 ft.

LUST:

Name:	UPLAND CITY YARD
Address:	1370 N BENSON AVE
City,State,Zip:	UPLAND, CA 91786
Lead Agency:	SAN BERNARDINO COUNTY

UPLAND CITY YARD (Continued) **S103629324**

Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100633
Global Id:	T0607100633
Latitude:	34.1105238
Longitude:	-117.6808666
Status:	Completed - Case Closed
Status Date:	08/23/2002
Case Worker:	Not reported
RB Case Number:	083603644T
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	99108
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607100633
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:	T0607100633
Action Type:	ENFORCEMENT
Date:	08/23/2002
Action:	Closure/No Further Action Letter
Global Id:	T0607100633
Action Type:	Other
Date:	08/10/1999
Action:	Leak Reported
Global Id:	T0607100633
Action Type:	ENFORCEMENT
Date:	09/01/1999
Action:	Notice of Responsibility
Global Id:	T0607100633
Action Type:	ENFORCEMENT
Date:	05/24/2002
Action:	Closure Summary
Global Id:	T0607100633
Action Type:	ENFORCEMENT
Date:	06/27/2002
Action:	Staff Letter
Global Id:	T0607100633
Action Type:	ENFORCEMENT
Date:	06/27/2002
Action:	Staff Letter

UPLAND CITY YARD (Continued) **S103629324**

Global Id: T0607100633
Action Type: ENFORCEMENT
Date: 08/09/2001
Action: Staff Letter

Global Id: T0607100633
Action Type: ENFORCEMENT
Date: 02/01/2002
Action: Staff Letter

Global Id: T0607100633
Action Type: RESPONSE
Date: 01/09/2002
Action: Other Report / Document

Global Id: T0607100633
Action Type: Other
Date: 09/28/1998
Action: Leak Discovery

Global Id: T0607100633
Action Type: RESPONSE
Date: 01/12/2000
Action: Other Report / Document

Global Id: T0607100633
Action Type: RESPONSE
Date: 05/06/2002
Action: Other Report / Document

Global Id: T0607100633
Action Type: RESPONSE
Date: 03/11/2002
Action: Other Report / Document

Global Id: T0607100633
Action Type: RESPONSE
Date: 08/08/2002
Action: Well Destruction Report

Global Id: T0607100633
Action Type: REMEDIATION
Date: 09/22/1998
Action: Excavation

Global Id: T0607100633
Action Type: REMEDIATION
Date: 05/18/2000
Action: Soil Vapor Extraction (SVE)

Global Id: T0607100633
Action Type: Other
Date: 09/28/1998
Action: Leak Stopped

LUST:
Global Id: T0607100633

UPLAND CITY YARD (Continued) **S103629324**

Status: Open - Case Begin Date
Status Date: 09/28/1998

Global Id: T0607100633
Status: Open - Site Assessment
Status Date: 08/10/1999

Global Id: T0607100633
Status: Open - Remediation
Status Date: 05/18/2000

Global Id: T0607100633
Status: Open - Site Assessment
Status Date: 05/18/2000

Global Id: T0607100633
Status: Completed - Case Closed
Status Date: 08/23/2002

CERS HAZ WASTE:
Name: HHW SATELLITE UPLAND
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Site ID: 122448
CERS ID: 10037863
CERS Description: Hazardous Waste Generator

Name: HHW SATELLITE UPLAND
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Site ID: 122448
CERS ID: 10037863
CERS Description: Household Hazardous Waste Collection

CORTESE:
Name: UPLAND CITY YARD
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100633
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

UPLAND CITY YARD (Continued) **S103629324**

WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

NPDES:
Name: 9054 9055 & 9056-DRAKE HERVEY & HUNTINGTON (WATER & STREET IMPROVEMENTS)
Address: 1370 NORTH BENSON AVENUE
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: Not reported
Regulatory Measure Type: Region 8 MS4 CIPs
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: Returned
Status Date: 04/08/2013
Operator Name: City of Upland
Operator Address: 1370 North Benson Avenue
Operator City: Upland
Operator State: California
Operator Zip: 91786

San Bern. Co. Permit:
Name: HHW SATELLITE UPLAND
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0002309
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0008345
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: FEE EXEMPT
Expiration Date: 12/31/2004

Name: HHW SATELLITE UPLAND
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0002309
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0008346

UPLAND CITY YARD (Continued) **S103629324**

Permit Category: LARGE QUANTITY GENERATOR
Facility Status: FEE EXEMPT
Expiration Date: 12/31/2004

Name: HHW SATELLITE UPLAND
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0002309
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0008352
Permit Category: PBR - HHW ANNUAL FEE
Facility Status: FEE EXEMPT
Expiration Date: 12/31/2004

Name: HHW SATELLITE UPLAND
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0002309
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0030518
Permit Category: PBR ANNUAL FEE
Facility Status: INACTIVE
Expiration Date: 12/31/2014

Name: HHW SATELLITE UPLAND
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0002309
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0030520
Permit Category: PBR ANNUAL FEE
Facility Status: INACTIVE
Expiration Date: 12/31/2014

Name: HHW SATELLITE UPLAND
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Region: SAN BERNARDINO
Facility ID: FA0002309
Owner: HOUSEHOLD HAZARDOUS WASTE
Permit Number: PT0016790
Permit Category: UW HANDLER WITH ANOTHER CUPA PERMIT
Facility Status: INACTIVE
Expiration Date: 12/31/2005

CERS:
Name: UPLAND CITY YARD
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Site ID: 209596
CERS ID: T0607100633
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:

UPLAND CITY YARD (Continued) **S103629324**

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

Name: HHW SATELLITE UPLAND
Address: 1370 N BENSON AVE
City,State,Zip: UPLAND, CA 91786
Site ID: 122448
CERS ID: 10037863
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-HHW UPLAND
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-HHW UPLAND
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE PBR INSPECTION-HHW UPLAND
Eval Division: San Bernardino County Fire Department
Eval Program: HHW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-23-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-HHW UPLAND
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-23-2019
Violations Found: No

UPLAND CITY YARD (Continued) **S103629324**

Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE HANDLER INSPECTION-HHW UPLAND
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-23-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE PBR HHW INSPECTION-HHW UPLAND
Eval Division:	San Bernardino County Fire Department
Eval Program:	HHW
Eval Source:	CERS

Coordinates:

Site ID:	122448
Facility Name:	HHW SATELLITE UPLAND
Env Int Type Code:	HWG
Program ID:	10037863
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	34.113087
Longitude:	-117.680854

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Michael VanGese
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	San 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:	Identification Signer
Entity Name:	Jose Rodriguez
Entity Title:	SUPERVISING HMS
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

UPLAND CITY YARD (Continued) **S103629324**

Affiliation Type Desc:	Legal Owner
Entity Name:	HOUSEHOLD HAZARDOUS WASTE
Entity Title:	Not reported
Affiliation Address:	2824 E "W" ST, STE 302
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92415-0799
Affiliation Phone:	(909) 382-5401

Affiliation Type Desc:	Operator
Entity Name:	JOSE RODRIGUEZ
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) 382-5401

Affiliation Type Desc:	Environmental Contact
Entity Name:	JOSE RODRIGUEZ
Entity Title:	Not reported
Affiliation Address:	2824 E "W" ST
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0799
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2824 EAST "W" ST.
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	San Bernardino County Fire Department - HHW
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:	UPLAND CITY OF FLEET MAINTENA
Address:	1370 N BENSON AVE
City,State,Zip:	UPLAND, CA 91786
Site ID:	460972
CERS ID:	110013853213
CERS Description:	US EPA Air Emission Inventory System (EIS)

140
SE
1/2-1
0.808 mi.
4266 ft.

Relative:
Lower

Actual:
1239 ft.

LAIDLAW ENVIRONMENTAL SERVICES CA INC
1369 W 9TH ST
UPLAND, CA 91786

ENVIROSTOR
SWEEPS UST
HIST UST
CA FID UST
EMI
HAZNET
HWP
CERS
HWTS

1000348979
N/A

ENVIROSTOR:

Name:	LAIDLAW ENVIRONMENTAL SERVICES CA INC
Address:	1369 W 9TH ST
City,State,Zip:	UPLAND, CA 917860000
Facility ID:	80001858
Status:	Inactive - Needs Evaluation
Status Date:	11/27/2012
Site Code:	Not reported
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Katherine Gould
Supervisor:	* Unknown
Division Branch:	Cleanup Cypress
Assembly:	41
Senate:	25
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.09632
Longitude:	-117.6753
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAT080034184
Alias Type:	EPA Identification Number
Alias Name:	80001858
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

LAIDLAW ENVIRONMENTAL SERVICES CA INC (Continued) **1000348979**

Schedule Revised Date: Not reported

SWEEPS UST:

Name:	DISPOSAL CONTROL SERVICE, INC.
Address:	1369 W 9TH ST
City:	UPLAND
Status:	Active
Comp Number:	4280
Number:	1
Board Of Equalization:	44-035889
Referral Date:	06-30-88
Action Date:	06-30-88
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-004280-000001
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	6

Name:	DISPOSAL CONTROL SERVICE, INC.
Address:	1369 W 9TH ST
City:	UPLAND
Status:	Active
Comp Number:	4280
Number:	1
Board Of Equalization:	44-035889
Referral Date:	06-30-88
Action Date:	06-30-88
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-004280-000002
Tank Status:	A
Capacity:	1000
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	Not reported

Name:	DISPOSAL CONTROL SERVICE, INC.
Address:	1369 W 9TH ST
City:	UPLAND
Status:	Active
Comp Number:	4280
Number:	1
Board Of Equalization:	44-035889
Referral Date:	06-30-88
Action Date:	06-30-88
Created Date:	02-29-88
Owner Tank Id:	3
SWRCB Tank Id:	36-000-004280-000003
Tank Status:	A
Capacity:	550

LAIDLAW ENVIRONMENTAL SERVICES CA INC (Continued) **1000348979**

Active Date: 07-01-85
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

Name: DISPOSAL CONTROL SERVICE, INC.
Address: 1369 W 9TH ST
City: UPLAND
Status: Active
Comp Number: 4280
Number: 1
Board Of Equalization: 44-035889
Referral Date: 06-30-88
Action Date: 06-30-88
Created Date: 02-29-88
Owner Tank Id: 4
SWRCB Tank Id: 36-000-004280-000004
Tank Status: A
Capacity: 280
Active Date: 07-01-85
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: Not reported

Name: DISPOSAL CONTROL SERVICE, INC.
Address: 1369 W 9TH ST
City: UPLAND
Status: Active
Comp Number: 4280
Number: 1
Board Of Equalization: 44-035889
Referral Date: 06-30-88
Action Date: 06-30-88
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-004280-000005
Tank Status: A
Capacity: 2500
Active Date: 06-29-94
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: DISPOSAL CONTROL SERVICE, INC.
Address: 1369 W 9TH ST
City: UPLAND
Status: Active
Comp Number: 4280
Number: 1
Board Of Equalization: 44-035889
Referral Date: 06-30-88
Action Date: 06-30-88
Created Date: 02-29-88
Owner Tank Id: Not reported

LAIDLAW ENVIRONMENTAL SERVICES CA INC (Continued) **1000348979**

SWRCB Tank Id: 36-000-004280-000006
Tank Status: A
Capacity: 10000
Active Date: 06-29-94
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: Not reported

HIST UST:
Name: DISPOSAL CONTROL SERVICE INC
Address: 1369 W 9TH ST
City,State,Zip: UPLAND, CA 91786
File Number: 00029CE2
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029CE2.pdf
Region: STATE
Facility ID: 00000004280
Facility Type: Other
Other Type: TRUCKING COMPANY
Contact Name: FRANCIS PASSARELLI
Telephone: 7149830342
Owner Name: CONQUIP, INC.-DON WILDER
Owner Address: 1367 W. 9TH ST.
Owner City,St,Zip: UPLAND, CA 91786
Total Tanks: 0004

Tank Num: 001
Container Num: 001
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 002
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 003
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 004
Year Installed: Not reported
Tank Capacity: 00000280

LAIDLAW ENVIRONMENTAL SERVICES CA INC (Continued) **1000348979**

Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 36008340
Regulated By: UTNKA
Regulated ID: 00004280
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 1369 W 009TH ST
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

EMI:
Name: DISPOSAL CONTROL SERVICE
Address: 1369 W 9TH ST
City,State,Zip: UPLAND, CA 91786
Year: 1987
County Code: 36
Air Basin: SC
Facility ID: 55235
Air District Name: SC
SIC Code: 3714
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
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: DISPOSAL CONTROL SERVICE
Address: 1369 W 9TH ST
City,State,Zip: UPLAND, CA 91786
Year: 1990
County Code: 36
Air Basin: SC
Facility ID: 55235
Air District Name: SC
SIC Code: 3714

LAIDLAW ENVIRONMENTAL SERVICES CA INC (Continued) **1000348979**

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

Name:	DISPOSAL CONTROL SERVICE
Address:	1369 W 9TH ST
City,State,Zip:	UPLAND, CA 91786
Year:	1993
County Code:	36
Air Basin:	SC
Facility ID:	55235
Air District Name:	SC
SIC Code:	3714
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:	4
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:	DISPOSAL CONTROL SERVICE
Address:	1369 W 9TH ST
City,State,Zip:	UPLAND, CA 91786
Year:	1995
County Code:	36
Air Basin:	SC
Facility ID:	55235
Air District Name:	SC
SIC Code:	3714
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:	4
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

HAZNET:

Name:	VCI UTILITY SERVICES DBA VANTAGE UTILITY SERVICES
Address:	1369 W 9TH ST
Address 2:	Not reported
City,State,Zip:	UPLAND, CA 91786
Contact:	JOEL BORBOA

LAIDLAW ENVIRONMENTAL SERVICES CA INC (Continued) **1000348979**

Telephone:	9099496060
Mailing Name:	Not reported
Mailing Address:	1369 W 9TH ST
Year:	2016
Gepaid:	CAL000393923
TSD EPA ID:	AZR000501510
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.025

HWP:

Name:	LAIDLAW ENVIRONMENTAL SERVICES CA INC
Address:	1369 W 9TH ST
City,State,Zip:	UPLAND, CA 917860000
EPA Id:	CAT080034184
Cleanup Status:	CLOSED
Latitude:	34.09632
Longitude:	-117.6753
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Assembly District:	41
Senate District:	25
Public Information Officer:	Not reported
Public Information Officer:	Not reported

Closure:

EPA Id:	CAT080034184
Facility Type:	Historical - Non-Operating
Unit Names:	Unit1
Event Description:	Closure Administrative - ISSUE CLOSURE VERIFICATION
Actual Date:	07/26/2017

CERS:

Name:	LAIDLAW ENVIRONMENTAL SERVICES CA INC
Address:	1369 W 9TH ST
City,State,Zip:	UPLAND, CA 917860000
Site ID:	244360
CERS ID:	CAT080034184
CERS Description:	Hazardous Waste

Affiliation:

Affiliation Type Desc:	Facility Contact
Entity Name:	PASQUALE PADUANO/OPERATIONS MG
Entity Title:	Not reported
Affiliation Address:	INACT PER NONDELIVERABLE VQ98 NK
Affiliation City:	UPLAND
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	917865712
Affiliation Phone:	9099830342

LAIDLAW ENVIRONMENTAL SERVICES CA INC (Continued) **1000348979**

Affiliation Type Desc: Facility Owner
Entity Name: LAIDLAW ENVIRONMENTAL SVS OF C
Entity Title: Not reported
Affiliation Address: 1369 W 9TH ST
Affiliation City: UPLAND
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 917865712
Affiliation Phone: 9099830342

Name: LAIDLAW ENVIRONMENTA
Address: 1369 W 9TH ST
City,State,Zip: UPLAND, CA 917860000
Site ID: 339178
CERS ID: 80001858
CERS Description: Corrective Action

Affiliation:
Affiliation Type Desc: Supervisor
Entity Name: * Unknown
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: Lead Project Manager
Entity Name: KATHERINE GOULD
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: CYPRESS
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: VCI UTILITY SERVICES DBA VANTAGE UTILITY SERVICES
Address: 1369 W 9TH ST
Address 2: Not reported
City,State,Zip: UPLAND, CA 91786
EPA ID: CAL000393923
Inactive Date: Not reported
Create Date: 02/05/2014
Last Act Date: 08/27/2020
Mailing Name: DON ANDERSON
Mailing Address: 9518 9TH ST.
Mailing Address 2: DON ANDERSON
Mailing City,State,Zip: RANCHO CUCAMONGA, CA 917300000
Owner Name: VCI UTILITY SERVICES
Owner Address: 1369 W 9TH ST
Owner Address 2: Not reported
Owner City,State,Zip: UPLAND, CA 91786

LAIDLAW ENVIRONMENTAL SERVICES CA INC (Continued) **1000348979**

Contact Name:	DON ANDERSON
Contact Address:	9518 9TH ST.
Contact Address 2:	DON ANDERSON
City,State,Zip:	RANCHO CUCAMONGA, CA 917300000

NAICS:

EPA ID:	CAL000393923
Create Date:	2014-02-05 14:15:08.023
NAICS Code:	99999
NAICS Description:	Not Otherwise Specified
Issued EPA ID Date:	2014-02-05 14:15:08.01300
Inactive Date:	Not reported
Facility Name:	VCI UTILITY SERVICES DBA VANTAGE UTILITY SERVICES
Facility Address:	1369 W 9TH ST
Facility Address 2:	Not reported
Facility City:	UPLAND
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91786

141
SE
1/2-1
0.851 mi.
4491 ft.

PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND
1333 WEST 9TH STREET
UPLAND, CA 91786

ENVIROSTOR
SCH
DEED
CIWQS

S106895164
N/A

Relative:
Lower

Actual:
1240 ft.

ENVIROSTOR:

Name:	PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY DAY SCHOOL)
Address:	1333 WEST 9TH STREET
City,State,Zip:	UPLAND, CA 91786
Facility ID:	36350023
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	12/12/2014
Site Code:	404620
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	4.83
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:	Not reported
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.09691
Longitude:	-117.6737
APN:	100750105
Past Use:	EQUIPMENT/INSTRUMENT REPAIR, VEHICLE MAINTENANCE
Potential COC:	Benzene Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	30022-NO 30027-NO
Potential Description:	SV
Alias Name:	SAN BERNARDINO COUNTY OFFICE OF EDUCATIO

PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY (Continued) **S106895164**

Alias Type: Alternate Name
Alias Name: SBER CO SOS PROPOSD UPLAND COMMUNITY DAY
Alias Type: Alternate Name
Alias Name: Upland Community Day School
Alias Type: Alternate Name
Alias Name: 100750105
Alias Type: APN
Alias Name: 404620
Alias Type: Project Code (Site Code)
Alias Name: 36350023
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 10/24/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/26/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 12/12/2014
Comments: Recorded Land Use Restrictions

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/23/2015
Comments: Annual Cost Estimate emailed and mailed to BP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2016
Comments: Annual Cost Estimate Letter sent to RP on 9/16/16.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/31/2017
Comments: Annual cost estimate letter sent 8/31/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/09/2018
Comments: FY 18/19 Estimate: 2,492

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate

PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY (Continued) **S106895164**

Completed Date: 09/06/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/26/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 06/07/2017
Comments: DTSC processed approval for the Annual LUC inspection

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/16/2018
Comments: DTSC Approved Annual LUC Inspection Report for 2017.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 09/13/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/10/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/01/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 03/14/2014
Comments: DTSC approved the TM subject to comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/12/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 04/20/2005
Comments: Not reported

PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY (Continued) **S106895164**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	04/28/2005
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	09/17/2008
Comments:	DTSC prepared project close out Cost Recovery Unit Memorandum.

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:	PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY DAY SCHOOL)
Address:	1333 WEST 9TH STREET
City,State,Zip:	UPLAND, CA 91786
Facility ID:	36350023
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	4.83
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:	404620
Assembly:	41
Senate:	25
Special Program Status:	Not reported
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	12/12/2014
Restricted Use:	YES
Funding:	Responsible Party
Latitude:	34.09691
Longitude:	-117.6737
APN:	100750105
Past Use:	EQUIPMENT/INSTRUMENT REPAIR, VEHICLE MAINTENANCE
Potential COC:	Benzene, Tetrachloroethylene (PCE, Trichloroethylene (TCE
Confirmed COC:	30022-NO, 30027-NO
Potential Description:	SV
Alias Name:	SAN BERNARDINO COUNTY OFFICE OF EDUCATIO
Alias Type:	Alternate Name
Alias Name:	SBER CO SOS PROPOSD UPLAND COMMUNITY DAY

PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY (Continued) **S106895164**

Alias Type: Alternate Name
Alias Name: Upland Community Day School
Alias Type: Alternate Name
Alias Name: 100750105
Alias Type: APN
Alias Name: 404620
Alias Type: Project Code (Site Code)
Alias Name: 36350023
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 10/24/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/26/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 12/12/2014
Comments: Recorded Land Use Restrictions

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/23/2015
Comments: Annual Cost Estimate emailed and mailed to BP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2016
Comments: Annual Cost Estimate Letter sent to RP on 9/16/16.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/31/2017
Comments: Annual cost estimate letter sent 8/31/17.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/09/2018
Comments: FY 18/19 Estimate: 2,492

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/06/2019
Comments: Not reported

PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY (Continued) **S106895164**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 02/26/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 06/07/2017
Comments: DTSC processed approval for the Annual LUC inspection

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/16/2018
Comments: DTSC Approved Annual LUC Inspection Report for 2017.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 09/13/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 03/10/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 05/01/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 03/14/2014
Comments: DTSC approved the TM subject to comments

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/12/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 04/20/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)

PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY (Continued) **S106895164**

Completed Date: 04/28/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/17/2008
Comments: DTSC prepared project close out Cost Recovery Unit Memorandum.

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

DEED:
Name: PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY DAY SCHOOL)
Address: 1333 WEST 9TH STREET
City,State,Zip: UPLAND, CA 91786
Envirostor ID: 36350023
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: SCHOOL CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: Envirostor Land Use Restrictions

CIWQS:
Name: BOART LONGYEAR COMPANY
Address: 1333 WEST 9TH ST
City,State,Zip: UPLAND, CA 91786
Agency: Boart Longyear Company
Agency Address: 10808 South Riverfront Pkwy, South Jordan, UT 94905
Place/Project Type: Industrial - Metal Mining Services
SIC/NAICS: 1081(+)
Region: 8
Program: INDSTW
Regulatory Measure Status: Terminated
Regulatory Measure Type: Storm water industrial
Order Number: 2014-0057-DWQ
WDID: 8 36I024317
NPDES Number: CAS000001
Adoption Date: Not reported
Effective Date: 06/19/2013
Termination Date: 04/01/2014
Expiration/Review Date: Not reported
Design Flow: Not reported
Major/Minor: Not reported
Complexity: Not reported

PROPERTY AT 1333 WEST 9TH STREET (FMR PRPSD UPLAND COMMUNITY (Continued) **S106895164**

TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09692
Longitude:	-117.67377

142
South
1/2-1
0.864 mi.
4561 ft.

ARROW HIGHWAY INDUSTRIAL BUILDING **ENVIROSTOR** **S124441412**
5566 ARROW HIGHWAY **VCP** **N/A**
MONTCLAIR, CA 91763 **NPDES**
CIWQS
CERS

Relative:
Lower

Actual:
1199 ft.

ENVIROSTOR:

Name:	FORMER WDC EXPLORATION & WELLS
Address:	5566 ARROW HIGHWAY
City,State,Zip:	MONTCLAIR, CA 91763
Facility ID:	60002825
Status:	Active
Status Date:	05/21/2019
Site Code:	401876
Site Type:	Voluntary Cleanup
Site Type Detailed:	Voluntary Cleanup
Acres:	4.47
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Rana Georges
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	, 52
Senate:	, 20
Special Program:	Voluntary Cleanup Program
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.09320
Longitude:	-117.6831
APN:	1007-631-02
Past Use:	AGRICULTURAL - ORCHARD, MAINTENANCE / CLEANING, OFFICE BUILDING, UNDERGROUND STORAGE TANKS, TRANSPORTATION - WAREHOUSING
Potential COC:	Arsenic Lead Polychlorinated biphenyls (PCBs Tetrachloroethylene (PCE TPH-diesel TPH-gas TPH-MOTOR OIL Under Investigation
Confirmed COC:	30001-NO 30013-NO 30018-NO Tetrachloroethylene (PCE 30024-NO 30025-NO 3002502-NO 31001-NO
Potential Description:	SV, UE
Alias Name:	1007-631-02
Alias Type:	APN
Alias Name:	401876
Alias Type:	Project Code (Site Code)
Alias Name:	60002825
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	08/28/2019
Comments:	Site visit to observe current conditions.

ARROW HIGHWAY INDUSTRIAL BUILDING (Continued) **S124441412**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	08/08/2019
Comments:	Agreement Executed. Advance Payment $8,221 due on 8/18/2019

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	09/05/2019
Comments:	DTSC provided comments on the Phase I Report during the scoping meeting. Additional sampling is required. DTSC requested a sampling workplan for the additional sampling.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	10/10/2019
Comments:	Conditional approval of sampling workplan.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	10/25/2019
Comments:	Soil and soil gas sampling completed.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	01/16/2020
Comments:	Additional sampling conducted at the site for purposes of characterizing soil vapor. Report will be revised and resubmitted with new data, HHRA and conceptual site model for DTSC review.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Workplan
Completed Date:	01/09/2020
Comments:	Additional soil gas samples proposed to address DTSC's comments on the Report.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	07/14/2020
Comments:	DTSC issued approval letter for the Site with a 'no further action' determination.

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

ARROW HIGHWAY INDUSTRIAL BUILDING (Continued) **S124441412**

VCP:

Name:	FORMER WDC EXPLORATION & WELLS
Address:	5566 ARROW HIGHWAY
City,State,Zip:	MONTCLAIR, CA 91763
Facility ID:	60002825
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	4.47
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Rana Georges
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	401876
Assembly:	, 52
Senate:	, 20
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	05/21/2019
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.09320 / -117.6831
APN:	1007-631-02
Past Use:	AGRICULTURAL - ORCHARD, MAINTENANCE / CLEANING, OFFICE BUILDING, UNDERGROUND STORAGE TANKS, TRANSPORTATION - WAREHOUSING
Potential COC:	30001, 30013, 30018, 30022, 30024, 30025, 3002502, 31001
Confirmed COC:	30001-NO,30013-NO,30018-NO,30022,30024-NO,30025-NO,3002502-NO,31001-NO
	Not reported
Potential Description:	SV, UE
Alias Name:	1007-631-02
Alias Type:	APN
Alias Name:	401876
Alias Type:	Project Code (Site Code)
Alias Name:	60002825
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	08/28/2019
Comments:	Site visit to observe current conditions.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	08/08/2019
Comments:	Agreement Executed. Advance Payment $8,221 due on 8/18/2019
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	09/05/2019
Comments:	DTSC provided comments on the Phase I Report during the scoping

ARROW HIGHWAY INDUSTRIAL BUILDING (Continued) **S124441412**

meeting. Additional sampling is required. DTSC requested a sampling workplan for the additional sampling.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 10/10/2019
Comments: Conditional approval of sampling workplan.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 10/25/2019
Comments: Soil and soil gas sampling completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 01/16/2020
Comments: Additional sampling conducted at the site for purposes of characterizing soil vapor. Report will be revised and resubmitted with new data, HHRA and conceptual site model for DTSC review.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 01/09/2020
Comments: Additional soil gas samples proposed to address DTSC's comments on the Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 07/14/2020
Comments: DTSC issued approval letter for the Site with a 'no further action' determination.

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

NPDES:
Name: ARROW HIGHWAY INDUSTRIAL BUILDING
Address: 5566 ARROW HIGHWAY
City,State,Zip: MONTCLAIR, CA 91763
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported

ARROW HIGHWAY INDUSTRIAL BUILDING (Continued) **S124441412**

Order Number:	Not reported
WDID:	8 36C387287
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:	Active
Status Date:	06/21/2019
Operator Name:	5566 Arrow Highway LLC
Operator Address:	915 Wilshire Boulevard
Operator City:	Los Angeles
Operator State:	California
Operator Zip:	90017

Name:	ARROW HIGHWAY INDUSTRIAL BUILDING
Address:	5566 ARROW HIGHWAY
City,State,Zip:	MONTCLAIR, CA 91763
Facility Status:	Active
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	509890
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 36C387287
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/21/2019
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	915 Wilshire Boulevard
Discharge Name:	5566 Arrow Highway LLC
Discharge City:	Los Angeles
Discharge State:	California
Discharge Zip:	90017
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

CIWQS:

Name:	ARROW HIGHWAY INDUSTRIAL BUILDING
Address:	5566 ARROW HIGHWAY
City,State,Zip:	MONTCLAIR, CA 91763
Agency:	5566 Arrow Highway LLC
Agency Address:	915 Wilshire Boulevard Suite 1750, Los Angeles, CA 90017

ARROW HIGHWAY INDUSTRIAL BUILDING (Continued) **S124441412**

Place/Project Type:	Construction - Commercial, Industrial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 36C387287
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	06/21/2019
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.09333
Longitude:	-117.68306

CERS:

Name:	ARROW HIGHWAY INDUSTRIAL BUILDING
Address:	5566 ARROW HIGHWAY
City,State,Zip:	MONTCLAIR, CA 91763
Site ID:	549211
CERS ID:	873481
CERS Description:	Construction Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	5566 Arrow Highway LLC
Entity Title:	Operator
Affiliation Address:	915 Wilshire BoulevardSuite 1750
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90017
Affiliation Phone:	Not reported

Count: 13 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLAREMONT	S107537805		BEHIND 1025 FOOTHILL BLVD	91711	CDL
UPLAND	S104748811	TERRY'S SHELL	183 FOOTHILL BLVD	91786	LUST, HIST CORTESE
UPLAND	S103464093	THRIFTY OIL # / ARCO # 9691	775 FOOTHILL BLVD	91786	LUST
UPLAND	S107536164		745 W FOOTHILL BLVD, IN VEHICL	91786	CDL
UPLAND	S107536163		745 W FOOTHILL BLVD	91786	CDL
UPLAND	S121693448	SUNRISE CLEANER	779 W FOOTHILL BLVD	91786	DRYCLEANERS
UPLAND	S121693397	LUSTRE CLEANERS	141 E FOOTHILL BLVD	91786	DRYCLEANERS
UPLAND	S121695396	SUNRISE CLEANERS, NAM KI KIM DBA	779 W FOOTHILL BLVD	91786	DRYCLEANERS
UPLAND	S121698956	LUSTRE CLEANERS	141 E FOOTHILL BOULEVARD	91786	DRYCLEANERS
UPLAND	S121697376	LUSTRE CLEANERS	141 E FOOTHILL BLVD	91786	DRYCLEANERS
UPLAND	S121698483	LUSTRE CLEANERS	141 E FOOTHILL BLVD	91786	DRYCLEANERS
UPLAND	S121700447	LUSTRE CLEANERS	141 E FOOTHILL BLVD	91786	DRYCLEANERS
UPLAND	S121700628	SUNRISE CLEANER	779 W FOOTHILL BLVD	91786	DRYCLEANERS

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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 04/12/2021
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 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 04/12/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 04/12/2021
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: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 01/25/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 01/25/2021
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: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 08/06/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/11/2020
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
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: 11/05/2020
Next Scheduled EDR Contact: 03/08/2021
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: 11/05/2020
Next Scheduled EDR Contact: 03/08/2021
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: 04/05/2021
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: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
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: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
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: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/10/2020
Next Scheduled EDR Contact: 02/22/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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 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 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 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 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 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 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: 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: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

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 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/14/2020
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 10
Telephone: 206-553-2857
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/29/2020
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 1
Telephone: 617-918-1313
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
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 5
Telephone: 312-886-7439
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 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: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
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 8
Telephone: 303-312-6271
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/15/2020
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 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
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: 07/21/2020
Date Data Arrived at EDR: 09/03/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 83

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
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: 09/03/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/03/2020
Number of Days to Update: 86
Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
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: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/03/2020
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 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 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 9
Telephone: 415-972-3368
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
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 10
Telephone: 206-553-2857
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/29/2020
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 1
Telephone: 617-918-1313
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
Date Data Arrived at EDR: 05/26/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 78

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/14/2020
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 5
Telephone: 312-886-6136
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

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: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Quarterly

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: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
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

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: 09/21/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/11/2020
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 09/14/2020
Date Data Arrived at EDR: 09/15/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/11/2020
Next Scheduled EDR Contact: 03/29/2021
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: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/28/2020
Date Data Arrived at EDR: 05/29/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
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: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
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: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 07/27/2020
Date Data Arrived at EDR: 07/27/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/26/2020
Next Scheduled EDR Contact: 02/08/2021
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: 06/30/2019
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
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

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: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/18/2020
Date Data Arrived at EDR: 03/19/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
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

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 05/20/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/06/2020
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: Annually

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: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/26/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 04/12/2021
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
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: 09/20/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 09/30/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
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: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
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: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
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: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 08/05/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/21/2020
Number of Days to Update: 69

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/01/2021
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: 10/13/2020
Next Scheduled EDR Contact: 01/25/2021
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: 01/07/2021
Next Scheduled EDR Contact: 04/19/2021
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: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
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: 09/21/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
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: 11/06/2020
Next Scheduled EDR Contact: 02/15/2021
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: 12/18/2020
Next Scheduled EDR Contact: 03/29/2021
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: 11/17/2020
Next Scheduled EDR Contact: 03/01/2021
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: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 03/15/2021
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: 07/24/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/21/2020
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/14/2020
Next Scheduled EDR Contact: 02/01/2021
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: 04/27/2020
Date Data Arrived at EDR: 05/06/2020
Date Made Active in Reports: 06/09/2020
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 02/15/2021
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: 10/09/2019
Date Data Arrived at EDR: 10/11/2019
Date Made Active in Reports: 12/20/2019
Number of Days to Update: 70

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
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: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
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: 10/12/2020
Next Scheduled EDR Contact: 01/31/2021
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: 12/31/2018
Date Data Arrived at EDR: 12/04/2019
Date Made Active in Reports: 01/15/2020
Number of Days to Update: 42
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
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: 11/30/2020
Next Scheduled EDR Contact: 03/15/2021
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: 11/06/2021
Next Scheduled EDR Contact: 02/15/2021
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: 01/08/2021
Next Scheduled EDR Contact: 04/12/2021
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: 10/27/2020
Next Scheduled EDR Contact: 02/08/2021
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: 09/30/2020
Date Data Arrived at EDR: 10/08/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 88

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
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: 12/23/2020
Next Scheduled EDR Contact: 04/05/2021
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: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
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: 11/06/2020
Next Scheduled EDR Contact: 02/15/2021
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: 11/20/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 12/02/2020
Next Scheduled EDR Contact: 04/12/2021
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: 09/10/2020
Date Data Arrived at EDR: 09/15/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 66

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 11/24/2020
Next Scheduled EDR Contact: 03/15/2021
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: 08/04/2020
Date Data Arrived at EDR: 08/25/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 85

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/08/2021
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: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
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: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
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: 09/16/2020
Date Data Arrived at EDR: 09/17/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/10/2020
Next Scheduled EDR Contact: 03/22/2021
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: 09/04/2020
Date Data Arrived at EDR: 09/15/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 66

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
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: 10/03/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/08/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/17/2020
Next Scheduled EDR Contact: 03/08/2021
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: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 10/21/2020
Number of Days to Update: 65
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
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: 06/22/2020
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 74
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/17/2020
Next Scheduled EDR Contact: 04/05/2021
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: 11/13/2020
Next Scheduled EDR Contact: 02/22/2021
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: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/13/2020
Number of Days to Update: 79

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/19/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 09/04/2020
Number of Days to Update: 14

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 08/06/2020
Date Data Arrived at EDR: 08/28/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 81

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
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: 12/18/2020
Next Scheduled EDR Contact: 03/29/2021
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: 10/16/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 08/05/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 79

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/04/2020
Next Scheduled EDR Contact: 02/22/2021
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: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
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: 08/17/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
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: 10/05/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
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: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/29/2020
Number of Days to Update: 80
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
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: 12/07/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
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: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
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: 11/13/2020
Next Scheduled EDR Contact: 03/01/2021
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: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
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: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 12/01/2020
Next Scheduled EDR Contact: 03/01/2021
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: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
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: 09/08/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 11/30/2020
Number of Days to Update: 83
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/04/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/25/2020
Next Scheduled EDR Contact: 03/08/2021
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: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 78

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 05/18/2020
Date Data Arrived at EDR: 05/19/2020
Date Made Active in Reports: 06/01/2020
Number of Days to Update: 13

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/15/2021
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: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
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: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
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: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 07/16/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 78

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
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: 10/02/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/22/2020
Next Scheduled EDR Contact: 04/12/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/13/2020
Number of Days to Update: 75

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/14/2020
Number of Days to Update: 76

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 08/13/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 71

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/06/2020
Date Data Arrived at EDR: 07/10/2020
Date Made Active in Reports: 09/28/2020
Number of Days to Update: 80

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/29/2020
Number of Days to Update: 81

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/25/2021
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: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
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: 12/18/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42
Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/12/2020
Next Scheduled EDR Contact: 01/25/2021
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: 12/18/2020
Next Scheduled EDR Contact: 04/05/2021
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: 12/18/2020
Next Scheduled EDR Contact: 04/05/2021
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: 07/20/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/29/2020
Number of Days to Update: 81
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/09/2020
Next Scheduled EDR Contact: 01/25/2021
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: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 10/05/2020
Next Scheduled EDR Contact: 02/01/2021
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/28/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 1

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/24/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 77

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/15/2020
Next Scheduled EDR Contact: 03/08/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 16

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
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: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
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: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/29/2020
Date Data Arrived at EDR: 07/30/2020
Date Made Active in Reports: 10/13/2020
Number of Days to Update: 75

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/20/2020
Next Scheduled EDR Contact: 02/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 06/10/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/19/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/02/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 79

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/02/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/01/2020
Date Data Arrived at EDR: 08/03/2020
Date Made Active in Reports: 10/19/2020
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/15/2021
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: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/06/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 27
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
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: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
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: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 08/04/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 08/04/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 82
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 08/31/2020
Date Data Arrived at EDR: 08/31/2020
Date Made Active in Reports: 11/23/2020
Number of Days to Update: 84

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/01/2020
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: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 11/16/2020
Next Scheduled EDR Contact: 02/01/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 78

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 08/03/2020
Date Data Arrived at EDR: 08/05/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 82

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 12/09/2020
Next Scheduled EDR Contact: 03/29/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 07/27/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 12/11/2020
Next Scheduled EDR Contact: 03/22/2021
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: 12/01/2020
Next Scheduled EDR Contact: 03/22/2021
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 08/20/2020
Date Data Arrived at EDR: 08/20/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 81

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 11/16/2020
Next Scheduled EDR Contact: 03/08/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 07/30/2020
Date Data Arrived at EDR: 07/31/2020
Date Made Active in Reports: 10/16/2020
Number of Days to Update: 77

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 06/03/2019
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 09/16/2020
Number of Days to Update: 21

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/03/2020
Next Scheduled EDR Contact: 03/15/2021
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: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
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: 09/18/2020
Date Data Arrived at EDR: 09/22/2020
Date Made Active in Reports: 12/14/2020
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/02/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/25/2020
Date Data Arrived at EDR: 08/26/2020
Date Made Active in Reports: 11/17/2020
Number of Days to Update: 83

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/23/2020
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/11/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 02/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/06/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 81

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 10/28/2020
Next Scheduled EDR Contact: 02/15/2021
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: 10/13/2020
Next Scheduled EDR Contact: 02/01/2021
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: 07/10/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 78

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
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: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
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: 11/05/2020
Next Scheduled EDR Contact: 02/22/2021
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: 07/10/2020
Date Data Arrived at EDR: 07/22/2020
Date Made Active in Reports: 10/07/2020
Number of Days to Update: 77

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/19/2020
Next Scheduled EDR Contact: 02/01/2021
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: 08/26/2020
Date Data Arrived at EDR: 09/08/2020
Date Made Active in Reports: 12/01/2020
Number of Days to Update: 84

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/08/2020
Next Scheduled EDR Contact: 03/22/2021
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: 12/20/2020
Next Scheduled EDR Contact: 04/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 08/06/2020
Date Data Arrived at EDR: 08/07/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 80

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 11/03/2020
Next Scheduled EDR Contact: 02/08/2021
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: 11/09/2020
Next Scheduled EDR Contact: 02/22/2021
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: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
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: 10/30/2020
Next Scheduled EDR Contact: 02/08/2021
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: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 10/02/2019
Date Made Active in Reports: 12/10/2019
Number of Days to Update: 69

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/11/2020
Next Scheduled EDR Contact: 03/01/2021
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: 12/03/2020
Next Scheduled EDR Contact: 03/22/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WEST FOOTHILL BOULEVARD UPLAND
1750 - 1780 WEST FOOTHILL BOULEVARD
UPLAND, CA 91786

TARGET PROPERTY COORDINATES

Latitude (North):	34.105945 - 34° 6' 21.40''
Longitude (West):	117.684771 - 117° 41' 5.18''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	436839.5
UTM Y (Meters):	3773920.0
Elevation:	1344 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5619074 ONTARIO, 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).

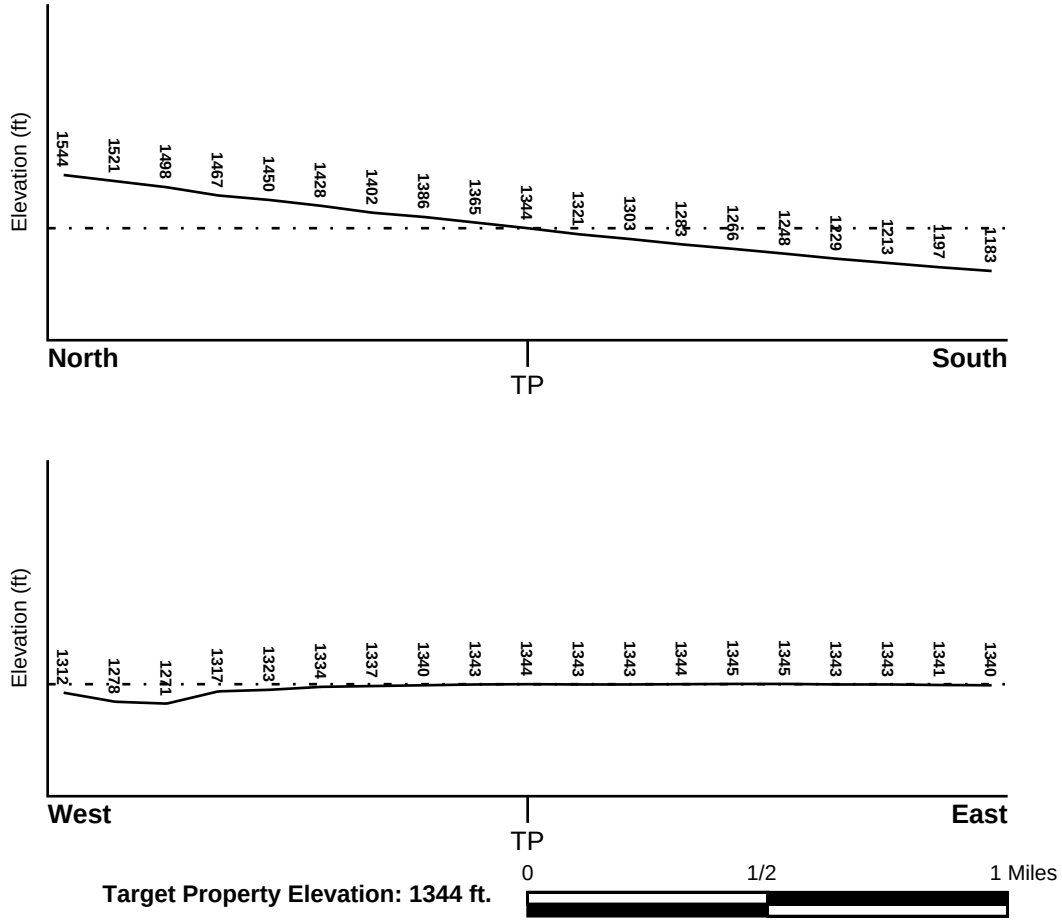
TOPOGRAPHIC INFORMATION

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 South

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
06071C8605H	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

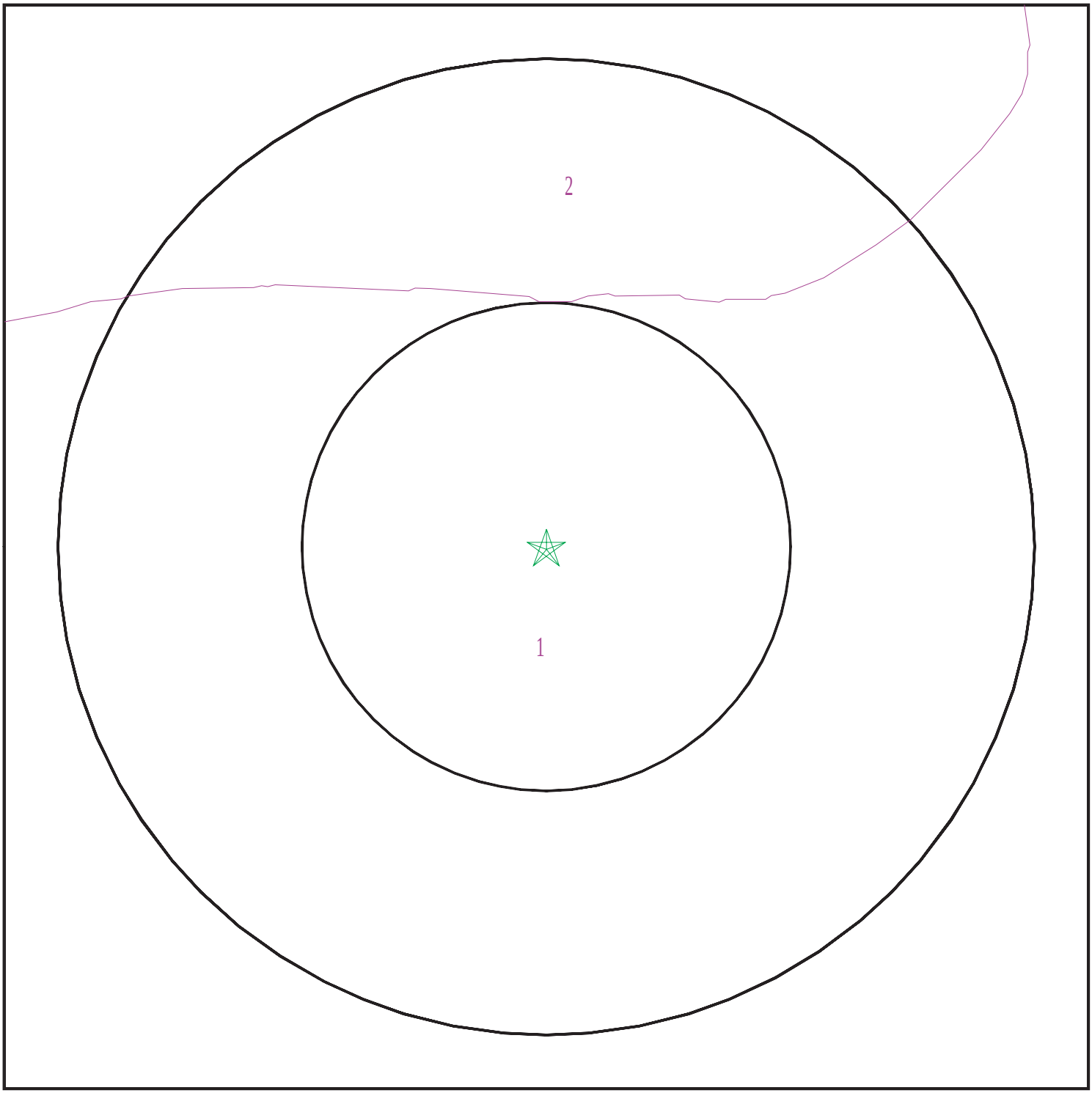
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

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 - 6325775.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	West Foothill Boulevard Upland	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	1750 - 1780 West Foothill Boulevard UPLAND CA 91786	CONTACT:	Cristina Scott
LAT/LONG:	34.105945 / 117.684771	INQUIRY #:	6325775.2s
		DATE:	January 11, 2021 11:15 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: 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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	USGS40000141000	1/2 - 1 Mile SSE
B4	USGS40000141003	1/2 - 1 Mile SSE
D11	USGS40000140900	1/2 - 1 Mile South
13	USGS40000140904	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

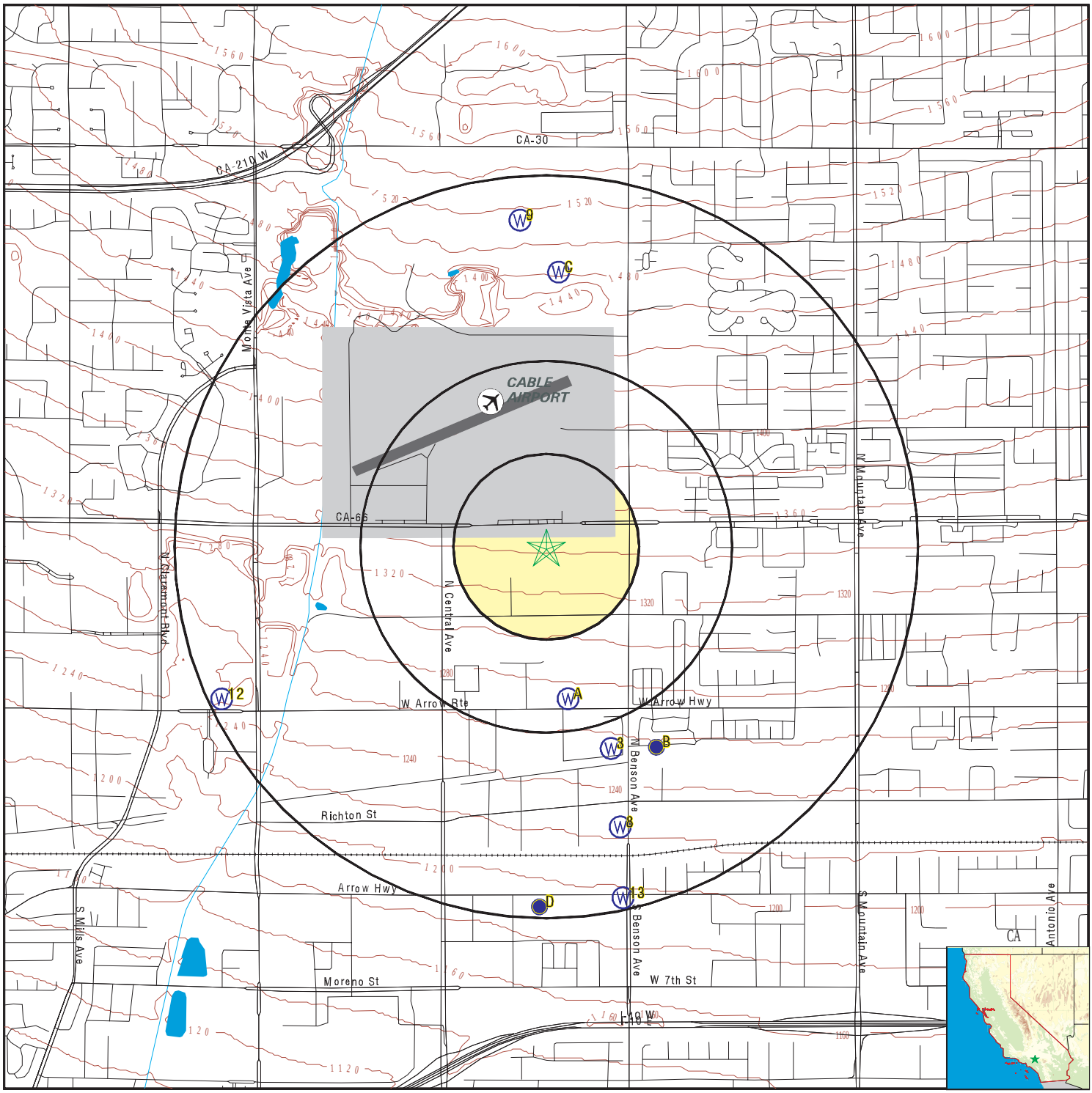
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	1150	1/4 - 1/2 Mile South
A2	CADDW0000014005	1/4 - 1/2 Mile SSE
B5	CADDW0000017183	1/2 - 1 Mile SSE
C6	1102	1/2 - 1 Mile North
C7	1103	1/2 - 1 Mile North
8	CADDW0000006128	1/2 - 1 Mile SSE
9	CADWR0000009887	1/2 - 1 Mile North
D10	CADDW0000000429	1/2 - 1 Mile South
12	CADDW0000014386	1/2 - 1 Mile WSW
D14	CADDW0000022483	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 6325775.2s



- 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:	West Foothill Boulevard Upland	CLIENT:	Partner Engineering and Science, Inc.
ADDRESS:	1750 - 1780 West Foothill Boulevard UPLAND CA 91786	CONTACT:	Cristina Scott
LAT/LONG:	34.105945 / 117.684771	INQUIRY #:	6325775.2s
		DATE:	January 11, 2021 11:14 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
South
1/4 - 1/2 Mile
Lower

CA WELLS **1150**

Seq:	1150	Prim sta c:	01S/08W-11B02 S
Frds no:	3610050031	County:	36
District:	13	User id:	TAN
System no:	3610050	Water type:	G
Source nam:	WELL 14 - DESTROYED	Station ty:	WELL/AMBNT
Latitude:	340600.0	Longitude:	1174100.0
Precision:	5	Status:	DS
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:	3610050	System nam:	City Of Upland
Hqname:	Not Reported	Address:	PO BOX 460
City:	UPLAND	State:	CA
Zip:	91786	Zip ext:	Not Reported
Pop serv:	66383	Connection:	16736
Area serve:	UPLAND VIC		

A2
SSE
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000014005**

Well ID:	3610050-031	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 14 - DESTROYED	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=3610050-031&store_num=		
GeoTracker Data:	Not Reported		

3
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000141000**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S008W11J001S	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:	928
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B4
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000141003**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S008W12M001S	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:	904
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B5
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000017183**

Well ID:	3610050-023	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 03	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=3610050-023&store_num=		
GeoTracker Data:	Not Reported		

C6
North
1/2 - 1 Mile
Higher

CA WELLS **1102**

Seq:	1102	Prim sta c:	01S/08W-02B01 S
Frds no:	3610086005	County:	36
District:	13	User id:	TAN
System no:	3610086	Water type:	G
Source nam:	WEST END WELL 03	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1174100.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610086	System nam:	West End Consolidated Water Company
Hqname:	Not Reported	Address:	139 N EUCLID AVE
City:	UPLAND	State:	CA
Zip:	91786	Zip ext:	Not Reported
Pop serv:	100	Connection:	1001
Area serve:	Not Reported		

Sample date:	15-NOV-17	Finding:	1.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	23-AUG-17	Finding:	1.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	23-AUG-17	Finding:	5.2
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	12.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	9.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	55.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	170.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	1.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-17	Finding:	190.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	380.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	0.24
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	23-AUG-17	Finding:	25.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	23-AUG-17	Finding:	0.15
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	17-AUG-16	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	17-AUG-16	Finding:	1.2
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	19-AUG-15	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	19-AUG-15	Finding:	5.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-JUN-15	Finding:	3.
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUN-15	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUN-15	Finding:	4.7
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	25-SEP-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	0.71
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	1.1
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	25-SEP-14	Finding:	6500.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	5.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-SEP-14	Finding:	0.72
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	74.
Chemical:	ALUMINUM	Report units:	UG/L
Dlr:	50.		
Sample date:	25-SEP-14	Finding:	0.32
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	25-SEP-14	Finding:	26.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	25-SEP-14	Finding:	7.6
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	25-SEP-14	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	8.6
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	12.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	59.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	200.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	25-SEP-14	Finding:	1200.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	26-AUG-14	Finding:	4.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

C7
North
1/2 - 1 Mile
Higher

CA WELLS **1103**

Seq:	1103	Prim sta c:	01S/08W-02B02 S
Frds no:	3610086006	County:	36
District:	13	User id:	TAN
System no:	3610086	Water type:	G
Source nam:	WEST END WELL 04	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	340700.0	Longitude:	1174100.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System no:	3610086	System nam:	West End Consolidated Water Company
Hqname:	Not Reported	Address:	139 N EUCLID AVE
City:	UPLAND	State:	CA
Zip:	91786	Zip ext:	Not Reported
Pop serv:	100	Connection:	1001
Area serve:	Not Reported		

Sample date:	15-NOV-17	Finding:	0.76
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	15-NOV-17	Finding:	74.
Chemical:	ALUMINUM	Report units:	UG/L
Dlr:	50.		

Sample date:	15-NOV-17	Finding:	740.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	15-NOV-17	Finding:	10.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	15-NOV-17	Finding:	8.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	15-NOV-17	Finding:	61.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	15-NOV-17	Finding:	180.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	15-NOV-17	Finding:	2.2
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	23-AUG-17	Finding:	28.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	23-AUG-17	Finding:	0.15
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	23-AUG-17	Finding:	21.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		

Sample date:	23-AUG-17	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	23-AUG-17	Finding:	7.9
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	23-AUG-17	Finding:	1.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	23-AUG-17	Finding:	1.2
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-17	Finding:	12.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	61.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	1.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	23-AUG-17	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	150.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	390.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	23-AUG-17	Finding:	10.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		

8
SSE **CA WELLS** **CADDW0000006128**
1/2 - 1 Mile
Lower

Well ID:	3610050-026	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 08	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=3610050-026&store_num=		
GeoTracker Data:	Not Reported		

9
North **CA WELLS** **CADWR0000009887**
1/2 - 1 Mile
Higher

Well ID:	01S08W02B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01S08W02B001S	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=01S08W02B001S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D10
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000000429**

Well ID:	3610029-003	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	ASR WELL 04	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=3610029-003&store_num=		
GeoTracker Data:	Not Reported		

D11
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000140900**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S008W14A002S	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:	474
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

12
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000014386**

Well ID:	3610029-016	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 22 - 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=3610029-016&store_num=		
GeoTracker Data:	Not Reported		

13
SSE
1/2 - 1 Mile
Lower

FED USGS **USGS40000140904**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S008W14A003S	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:	920
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

D14
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000022483**

Well ID:	3610029-025	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 27	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=3610029-025&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
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 D: QUALIFICATIONS

PARTNER

Heather Hodgetts
Senior Scientist

Education

B.A. in Earth Sciences, University of Southern California

Training

40-Hour OSHA-approved Health & Safety Training
8-hour OSHA HAZWOPER Annual Refresher

Highlights

20 years in the environmental consulting industry
Phase I Environmental Site Assessments
Phase II and III Subsurface Investigations

Experience Summary

As a Senior Scientist for due diligence services within the Investment Advisory Group, Ms. Hodgetts focuses on providing solutions to clients' due diligence and engineering needs and sharing years of expertise with staff and clients. Previously, Ms. Hodgetts was a Senior Environmental Scientist for a Fortune 500 company and was responsible for managing due diligence projects throughout the United States.

Ms. Hodgetts has performed hundreds of Phase I Environmental Site Assessments, Third Party Reviews, Due Diligence Audits, and Record Search, Phase II Subsurface Investigations, Underground Storage Tank Investigations, Remedial Investigations, Limited asbestos surveys, Lead-based paint surveys, Radon Studies, and Lead-in-water sampling and analysis.

Ms. Hodgetts has worked with various clients including: individual investors, institutional investors, private and institutional equity companies, insurance companies, attorneys, brokers, developers, and multiple lenders.

Project Experience

Phase I Environmental Site assessments

Ms. Hodgetts has performed Phase I Environmental Site Assessments of commercial, residential, and industrial properties including schools, shopping centers, industrial parks, manufacturing facilities, drycleaners and gasoline stations.

Subsurface Investigations

Conducted soil and groundwater assessments at County of San Diego Department of Public Works Road Stations throughout San Diego County. Activities included field oversight of groundwater monitoring well installation using mud-rotary, air-rotary, and hollow-stem augers; soil and groundwater sampling; receptor surveys; and installed monitoring wells and soil borings.

Environmental Regulatory Compliance

Assisted in environmental regulatory compliance audit and ownership transfer activities. The audit included coordinating with local agencies to transfer environmental permits for air, wastewater, hazardous waste, and medical waste.

Storage Tank Programs
Completed UST Closure Reports, Limited Site Assessments, Soil Assessment Reports, Soil Closure Reports, and Corrective Action Plans for submittal to regulatory agencies for UST sites owned by various industrial and government entities.

School District Investigations
Worked in-house for San Diego Unified School District (SDUSD) for 15 months completing the environmental due diligence for Proposition MM, a bond measure passed by voters to fund modernization of 165 existing school and construction of 16 new/rebuilt schools. Activities included: conducting Phase I ESAs for proposed school sites, including information relevant to the California Department of Education (CDE) School Site Selection and Approval Guide; submitting Phase I ESAs for EPA Department of Toxic Substances Control review; preparing Public Participations Plans and assisting with public meeting presentations; and submitting site packages to CDE for site approval. In addition to SDUSD, Ms. Hodgetts has also worked on Los Angeles Unified School District, Coronado Unified School District, and Lake Elsinore Unified School District sites.

Subsurface Investigations
Conducted soil and groundwater assessments at County of San Diego Department of Public Works Road Stations throughout San Diego County. Activities included field oversight of groundwater monitoring well installation using mud-rotary, air-rotary, and hollow-stem augers; soil and groundwater sampling; receptor surveys; and installed monitoring wells and soil borings.

Environmental Regulatory Compliance
Assisted in environmental regulatory compliance audit and ownership transfer activities. The audit included coordinating with local agencies to transfer environmental permits for air, wastewater, hazardous waste, and medical waste.

Cellular Telephone Investigations
Performed environmental assessments for cellular telephone antenna installations for a major cellular operator. Tasks included: inspections of numerous buildings, installations, additions, collocations, and vacant land; and asbestos and lead sampling at these facilities throughout southern California.

Contact

hhodgettsl@partneresi.com

Debbie Stott, P.G.
Nevada CEM
Technical Director

Education

BA Geology, The Ohio State University

Registrations

California Professional Geologist No. 6221
Nevada Certified Environmental Manager No. 2359

Training

OSHA, Hazardous Waste Operator (HAZWOPER) 40 hour Certification
AHERA Certified Asbestos Inspector
Certified Project Manager

Highlights

Over 25 years of experience in the environmental service industry with a focus on due diligence assessments
Knowledgeable with ASTM, EPA's All Appropriate Inquiry (AAI), and customized client formats.
100+ Phase I Environmental Site Assessments

Experience Summary

As Technical Director for due diligence services as part of the Investment Advisory Group, Ms. Stott focuses on report quality, client service, and sharing her years of expertise with staff and clients.

Ms. Stott has performed hundreds of Phase I Environmental Site Assessments, Third Party Reviews, Due Diligence Audits, Record Search and Risk Assessments, Phase II and III Subsurface Investigations, Underground storage tank investigations, Remedial Investigations, Radon Studies, Mold Assessments, Methane Surveys, Indoor Air Quality Assessments, and Lead-in-water sampling and analysis.

Clients have varied and have included: individual investors, City of Los Angeles Agencies, Los Angeles County, City of Anaheim, institutional investors, private and institutional equity companies, insurance companies, attorneys, brokers, developers, and multiple lenders.

Project Experience

Ms. Stott has conducted, managed and directed thousands of ESAs throughout her career and has been Senior Project Manager for hundreds of site investigations, characterization studies and remediation projects throughout California and the US. The following select projects summarize her experience and due diligence background:

Transaction Due Diligence

Project Manager, Western US and Southern California, LBA Realty. For over 16 years performed due diligence services related to real estate transfers as well as asset refinances for LBA Realty. The relationship requires close coordination and communication with property managers and representatives to provide a smooth process with client and lenders. Services have also included review of third party reports, asbestos surveys, subsurface investigations, and development of soil management plans. Many projects involved multiple locations in several states thus requiring coordination with other offices and client contacts.

Environmental Lead, West Coast, Barings, LLC (Barings). Ms. Stott assists with management and review of environmental due diligence and environmental actions associated with acquisitions, property development, joint venture developments, property divestments and finance group loan transactions. Environmental due diligence includes Phase I ESAs, Phase II ESAs, indoor air quality assessments, mold assessment and mitigation planning, providing third party review, asbestos investigations, asbestos abatement, operation and maintenance plan development, remedial action development and implementation, regulatory correspondence and permitting.

Phase I ESAs – multiple clients throughout US.. Ms. Stott manages and oversees preparation of Phase I Environmental Site Assessments for several confidential clients. All are completed to ASTM guidelines with various special criteria specific to each client.

Subsurface Investigations/Vapor Intrusion

Project Manager, Whittier, CA, Confidential Client. Conducted several investigations to evaluate the potential for vapor intrusion associated with contaminated groundwater into client buildings. At one location a horizontal well system was installed to passively vent vapors. Site investigations involved the installation of multiple, multi-depth vapor probes through the property to map the plume and to assist in decision making for potential further investigation. Data collected from both soil vapor and indoor air monitoring was subjected to risk assessment in order to determine if indoor air quality had been negatively impacted and engineering controls needed to protect workers. Client was able to purchase and redevelop portions of the desired parcels for use as parking.

Project Manager and Environmental Lead, Berkeley, CA, LBA Realty. Evaluation of potential risks associated with the presence of trichloroethylene (TCE) and breakdown products cis 1,2- dichloroethene (cis 1,2-DCE) and vinyl chloride (VC), and methyl tert butyl ether (MTBE) in groundwater and ambient air at an existing building in Berkeley, CA. Worked with outside counsel to evaluate, summarize, and present the risks and potential risks of continued investment in the property. Remedial systems were installed under DTSC oversight, risk assessment performed and the building remodeled and reused for office space.

Municipal/State Contracts

Project Manager, ESAs for City of Anaheim widening of Lincoln Avenue. As a subcontractor to the geotechnical consultant, Partner provided Environmental Site Assessments for multiple properties along the project alignment. The parcel uses ranged from car wash, to older office and motel properties, automotive repair, banks, public school, and a church. Partner finished the multi-site project on time and within budget.

Contact

Dstott@partneresi.com

City of Upland

Department of Public Works | Environmental Division

Preliminary Water Quality Management Plan

Order No. R8-2010-0036, NPDES No. CAS 618036
Area-wide Urban Storm Water Runoff Management Program

Project Name:		West Foothill Boulevard Industrial		
Project Address:		1750-1780 West Foothill Blvd, Upland CA 91786		
Permit/Application Number(s):		TBD		
Tract/Parcel Map Number(s) (Specify Lot Numbers if Portions of Tract):		TBD	APN(s):	1007-091-01,02,03
Prepared for	Name:	Magellan Value Partners		
	Address:	1900 Avenue of the Stars, Suite 2470, Los Angeles, CA 90067		
	Phone:	(310) 507-9791 x103	Email:	mukherjee@magellanvp.com
Prepared by	Name:	Huitt-Zollars, Inc.		
	Address:	90 E Thousand Oaks Blvd., Suite 201 Thousand Oaks, CA 91360		
	Phone:	(805) 418-1802	Email:	jvlassis@Huitt-Zollars.com
Submittal Date:		10-10-2022		
Approval Date:				

Project Owner's Certification

This Water Quality Management Plan (WQMP) has been prepared for Magellan Value Partners by Huitt-Zollars. The WQMP is intended to comply with the requirements of the City of Upland and the NPDES Areawide Stormwater Program requiring the preparation of a WQMP. The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with San Bernardino County's Municipal Storm Water Management Program and the intent of the NPDES Permit for San Bernardino County and the incorporated cities of San Bernardino County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors in interest and the city/county shall be notified of the transfer. The new owner will be informed of its responsibility under this WQMP. A copy of the approved WQMP shall be available on the subject site in perpetuity.

"I certify under a penalty of law that the provisions (implementation, operation, maintenance, and funding) of the WQMP have been accepted and that the plan will be transferred to future successors."

Project Data			
Permit/Application Number(s):	TBD	Grading Permit Number(s):	TBD
Tract/Parcel Map Number(s):	TBD	Building Permit Number(s):	TBD
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			1007-091-01,02,03

Owner's Signature			
Owner Name:	Somy Mukherjee		
Title	Managing Director		
Company	Magellan Value Partners		
Address	1900 Avenue of the Stars, Suite 2470, Los Angeles, CA 90067		
Email	mukherjee@magellanvp.com		
Telephone #	(310) 507-9791 x103		
Signature		Date	

Preparer's Certification

Project Data			
Permit/Application Number(s):	TBD	Grading Permit Number(s):	TBD
Tract/Parcel Map Number(s):	TBD	Building Permit Number(s):	TBD
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			1007-091-01,02,03

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan were prepared under my oversight and meet the requirements of Regional Water Quality Control Board Order No. R8-2010-0036."

Engineer:	John Vlassis
Title	Project Manager
Company	Huitt-Zollars, Inc.
Address	90 E Thousand Oaks Blvd., Suite 201 Thousand Oaks, CA 91360
Email	jvlassis@Huitt-Zollars.com
Telephone #	(805) 418-1802
Signature	

PE Stamp Below

Form 1-1 Project Information

Project Name	West Foothill Boulevard Industrial				
Project Owner Contact Name:	Somy Mukherjee				
Mailing Address:	1900 Avenue of the Stars, Suite 2470, Los Angeles, CA 90067	E-mail Address:	mukherjee@magellanvp.com	Telephone:	(310) 507-9791 x103
Permit/Application Number(s):	TBD		Tract/Parcel Map Number(s):	TBD	
Additional Information/ Comments:					
Provide summary of Conceptual WQMP conditions (if previously submitted and approved). Attach complete copy.					
Description of Project:	Foothill Boulevard Industrial is an approximately 6.05 acre industrial/commercial project located at 1750 Foothill Boulevard, City of Upland, County of San Bernardino, California. The proposed site will consist of three (3) new buildings, a surrounding parking lot, a loading dock area, and landscaping areas. One (1) proposed building, approximately 3500 sq-ft, will be designated for retail on the North end of the site. The remaining two (2) proposed buildings will be warehouses with office space. The first warehouse, on middle of site, will be approximately 46,099 sq-ft with 4,164 sq-ft of office space. The second warehouse, on the South end of the site, will be approximately 56,789 sq-ft with 7,833 sq-ft of office space. Existing Drainage Pattern: The site generally slopes approx 3% from the North end to the South. Developed adjacent properties confine the site runoff within its property lines. Proposed Drainage Pattern: The proposed sight will consist of catch basins receiving surface runoff and conveying it into the underground infiltration chamber located under the South-East parking lot. Runoff from both the North and South loading dock areas will be received by a channel drain located in the South loading dock which will then convey the runoff into the infiltration chamber. A 36" bypass drain will be connected to an existing lateral from the street to the North of the project site and convey runoff from the street down the East side of the proposed site and connect to the existing gutter outlet located below the South East parking lot. Runoff from the South-East parking lot directly on-top of the infiltration chambers will be conveyed to Catch Basin No. 1. Runoff from the parking lot North and North-West -adjacent to the infiltration trench will be conveyed to Catch Basin No. 2 and No. 3. Runoff from the lower half of the East drive isle will be conveyed to Catch Basin No. 4 Runoff from the upper half of the East drive isle will be conveyed to Catch Basin No. 5 Runoff from the parking lot East and South of the proposed retail building will be conveyed to Catch Basin No. 6 Runoff from the drive-thru isles North of the proposed Retail building will be conveyed to Catch Basin No. 7 Runoff from the upper half of the West drive isle will be conveyed to Catch Basin No. 8 Runoff from the lower half of the West drive isle will be conveyed to Catch Basin No 9 Runoff from the North and South section of the parking lot West of the shared loading dock areas will be conveyed to Catch Basin No. 10 and No. 11 respectively.				

Form 2.1-1 Description of Proposed Project

1 Development Category (Select all that apply):

☑	All significant re-development[1] projects - defined as the addition or replacement of 5,000 or more square feet (sq. ft) of impervious surface on an already developed site subject to discretionary approval of the permitting jurisdiction. In addition: • Re-development does not include: Routine maintenance activities that are conducted to maintain original line and grade, hydraulic capacity, original purpose of the facility, or emergency redevelopment activity required to protect public health and safety. • Where re-development results in an increase of less than 50% of the impervious surfaces of a previously existing developed site, and the existing development was not subject to WQMP requirements, the numeric sizing criteria discussed in Section 4 applies only to the addition or replacement, and not to the entire developed site. • Where re-development results in an increase of 50% or more of the impervious surfaces of a previously existing developed site, the numeric sizing criteria discussed in Section 4 applies to the entire development.
☑	New development projects that create 10,000 sq. ft. or more of impervious surface (collectively over the entire project site) including commercial, industrial, residential housing subdivisions (i.e., detached single family home subdivisions, multi-family attached subdivisions or townhomes, condominiums, apartments, etc.), mixed-use, and public projects. This category includes development projects on public and private land, which fall under the planning and building authority of the permitting jurisdiction.
☐	New development or significant re-development[1] of automotive repair shops (with SIC[2] Codes 5013, 5014, 5541, 7532-7534, 7536-7539) where the project creates, adds and/or replaces 5,000 square feet or more of impervious surface.
☐	New development or significant re-development[1] of restaurants (with SIC[2] Code 5812) where the land area of development is 5,000 sq. ft. or more.
☐	All hillside developments of 5,000 sq. ft. or more which are located on areas with known erosive soil conditions or where the natural slope is 25% or more.
☐	Developments of 2,500 sq. ft. of impervious surface or more adjacent to (within 200 feet) or discharging directly into environmentally sensitive areas or waterbodies listed on the CWA Section 303(d) list of impaired waters[(3)].
☐	Parking lots of 5,000 sq. ft. or more exposed to stormwater. A parking lot is defined as land area or facility for the temporary parking or storage of motor vehicles.
☐	New development or significant re-development[1] of Retail Gasoline Outlets that are either 5,000 sq. ft. or more, or have a projected average daily traffic of 100 or more vehicles per day.

(1) – As defined by RWQCB Order R8-2010-0036
(2) – For SIC codes, see: www.osha.gov/pls/imis/sicsearch.html
(3) – See Section 3 of TGD for WQMP for additional information regarding impaired waters

2 Project Area (ft2):	263,476	**3** Number of Dwelling Units:	0	**4** SIC Code:	4225

5 Is Project going to be phased? Yes ☐ No ■

If yes, ensure that the WQMP evaluates each phase as a distinct DA, requiring LID BMPs to address runoff at time of completion.

6 Does Project include roads? Yes ☐ No ■

If yes, ensure that applicable requirements for transportation projects are addressed (see Appendix A of TGD for WQMP)

Form 2.2-1 Property Ownership/Management

Describe property ownership/ management responsible for long-term maintenance of WQMP stormwater facilities:

Responsibility for operation and maintenance activities is to be upheld by the owner. The owner of the property and its successors is responsible for implementation of the WQMP or BMP's for this project site

Owner contact information
Name: Somy Mukherjee
Email: mukherjee@magellanvp.com
Telephone: 310-507-9791 x103
Mailing Address: 1900 Avenue of the Stars, Suite 2470, Los Angeles, CA 90067

Form 2.3-1 Pollutants of Concern

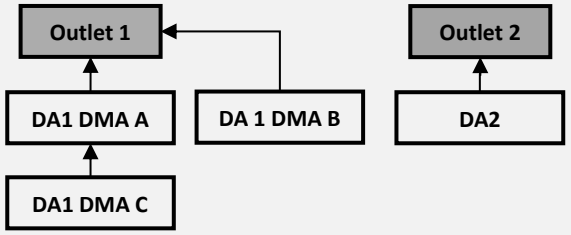
Pollutant	Please check: E=Expected, N=Not Expected		Additional Information and Comments
Pathogens (Bacterial / Virus)	E ■	N ☐	Including petroleum hydrocarbons
Nutrients - Phosphorous	E ■	N ☐	Associated with landscape and irrigation maintenance
Nutrients - Nitrogen	E ■	N ☐	Associated with landscape and irrigation maintenance
Noxious Aquatic Plants	E ☐	N ■	
Sediment	E ■	N ☐	Associated with landscape and irrigation maintenance
Metals	E ■	N ☐	Associated with import and export of goods via loading docks, as well as connected parking lot for employees
Oil and Grease	E ■	N ☐	Associated with import and export of goods via loading docks. as well as connected parking lot for employees
Trash/Debris	E ■	N ☐	Associated with import and export of goods via loading docks, as well as connected parking lot for employees
Pesticides / Herbicides	E ■	N ☐	Associated with landscape and irrigation maintenance
Organic Compounds	E ■	N ☐	Associated with landscape and irrigation maintenance
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	

Form 3-1 Site Location and Hydrologic Features

Site coordinates *take GPS measurement at approximate center of site*	Latitude: 34° 6' 21.2256"	Longitude: -117° 41' 5.125"	Thomas Bros Map page: NA

1 San Bernardino County climatic region: ■ Valley ☐ Mountain

2 Does the site have more than one drainage area (DA): Yes☐ No■ *If no, proceed to Form 3-2. If yes, then use this form to show a conceptual schematic describing DMAs and hydrologic feature connecting DMAs to the site outlet(s). An example is provided below that can be modified for proposed project or a drawing clearly showing DMA and flow routing may be attached*



Example only – provide a project specific drawing to the right

Conveyance	Briefly describe on-site drainage features to convey runoff that is not retained within a DMA
Example: DA1 DMA C flows to DA1 DMA A	*Ex. Bioretention overflow to vegetated bioswale with 4' bottom width, 5:1 side slopes and bed slope of 0.01. Conveys runoff for 1000' through DMA 1 to existing catch basin on SE corner of property*
DA1 to Outlet	DA1 drains to catch basins which flow into underground infiltration trench, of whi

Form 3-2 Existing Hydrologic Characteristics for Drainage Area 1				
For Drainage Area 1's sub-watershed DMA, provide the following characteristics	DMA A	DMA B	DMA C	DMA D
1 DMA drainage area (ft^2)	15,066	47,734	54,600	146,076
2 Existing site impervious area (ft^2)	15,066	47,734	54,600	0
3 Antecedent moisture condition *For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*	3	3	3	3
4 Hydrologic soil group *Refer to Watershed Mapping Tool –http://permitrack.sbcounty.gov/wap/*	Type A	Type A	Type A	Type A
5 Longest flowpath length (ft)	377	377	340	661
6 Longest flowpath slope (ft/ft)	1.3%	2.6%	3.2%	2.7%
7 Current land cover type(s) *Select from Fig C-3 of Hydrology Manual*	Rooftop	Concrete	Asphalt	Eroded and Graded Land
8 Pre-developed pervious area condition: *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% Attach photos of site to support rating*				

Form 3-2 Existing Hydrologic Characteristics for Drainage Area 2 (if applicable)				
For Drainage Area 1's sub-watershed DMA, provide the following characteristics	DMA A	DMA B	DMA C	DMA D
1 DMA drainage area (ft^2)				
2 Existing site impervious area (ft^2)				
3 Antecedent moisture condition *For desert areas, use http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*				
4 Hydrologic soil group *Refer to Watershed Mapping Tool –http://permitrack.sbcounty.gov/wap/*				
5 Longest flowpath length (ft)				
6 Longest flowpath slope (ft/ft)				
7 Current land cover type(s) *Select from Fig C-3 of Hydrology Manual*				
8 Pre-developed pervious area condition: *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50% Attach photos of site to support rating*				

Form 3-3 Watershed Description for Drainage Area	
Receiving waters *Refer to Watershed Mapping Tool - http://permitrack.sbcounty.gov/wap/* *See 'Drainage Facilities" link at this website*	San Antonio Creek, Chino Creek, Mill Creek (Prado Area), Santa Ana River Reach 3, 2, and 1, San Antonio Channel.
Applicable TMDLs *Refer to Local Implementation Plan*	Nutrients, Chemical Oxygen Demand(COD), pH, Copper and Lead
303(d) listed impairments *Refer to Local Implementation Plan and Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/ and State Water Resources Control Board website – http://www.waterboards.ca.gov/santaana/water_issues/programs/tmdl/index.shtml*	Coliform Bacteria, pH, Chemical Oxygen Demand (COD), Nutrients, Pathogens, Copper and Lead
Environmentally Sensitive Areas (ESA) *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*	
Unlined Downstream Water Bodies *Refer to Watershed Mapping Tool – http://permitrack.sbcounty.gov/wap/*	San Antonio Creek
Hydrologic Conditions of Concern	☐ Yes *Complete Hydrologic Conditions of Concern (HCOC) Assessment. Include Forms 4.2-2 through Form 4.2-5 and Hydromodification BMP Form 4.3-10 in submittal* ☒ No
Watershed–based BMP included in a RWQCB approved WAP	☐ Yes *Attach verification of regional BMP evaluation criteria in WAP* • *More Effective than On-site LID* • *Remaining Capacity for Project DCV* • *Upstream of any Water of the US* • *Operational at Project Completion* • *Long-Term Maintenance Plan* ☐ No

Source Control BMPs Design Consideration		
FOR REFERENCE (To be implemented during Final Design)		
If Potential Source of Runoff Pollutants will be on the Project Site…	**… then WQMP shall include these Source Control BMPs**	
Project Characteristic/ Activity	**Non-Structural BMPs**	**Structural BMPs**
On-Site Storm Drain Inlets	N1 – Education for POA, Tenants, Occupants N2 – Activity Restrictions N4 – BMP Maintenance N12 – Employee Training N14 – Catch Basin Inspection	S1 – Provide Storm Drain Stenciling and Signage
Landscape/ Outdoor Pesticide Use	N1 – Education for POA, Tenants, Occupants N2 – Activity Restrictions N3 – Landscape Management N4 – BMP Maintenance N12 – Employee Training	S4 – Use Efficient Irrigation Systems and Landscape Design S5 – Finished Grade of Landscaped Areas S6 – Protect Slopes and Channels S13 – Site Design and Landscape Planning (Hillside Landscaping)
Food Service/ Restaurants	N4 – BMP Maintenance N12 – Employee Training	S3 – Design and Construct Trash and Waste Storage Areas to Reduce Pollution Introduction S14 – Wash Water Controls for Food Preparation Areas
Refuse Areas	N1 – Education for POA, Tenants, Occupants N2 – Activity Restrictions N4 – BMP Maintenance N11 – Litter Control N12 – Employee Training	S3 – Design and Construct Trash and Waste Storage Areas to Reduce Pollution Introduction
Outdoor Storage of Equipment or Materials	N4 – BMP Maintenance N7 – Spill Contingency Plan N9 – Hazardous Materials Disclosure Compliance N12 – Employee Training	S2 – Design Outdoor Materials Storage Areas S10 – Outdoor Processing Areas
Vehicle and Equipment Cleaning	N1 – Education for POA, Tenants, Occupants N2 – Activity Restrictions N4 – BMP Maintenance N12 – Employee Training	S8 – Maintenance Bays & Docks S9 – Vehicle Wash Areas S11 – Equipment Wash Areas S15 – Community Wash Racks
Vehicle/ Equipment Repair & Maintenance	N1 – Education for POA, Tenants, Occupants N2 – Activity Restrictions N4 – BMP Maintenance N12 – Employee Training	S8 – Maintenance Bays & Docks
Fuel Dispensing Areas	N4 – BMP Maintenance N6 – Local Water Quality Permit Compliance N7 – Spill Contingency Plan N8 – Underground Storage Tank Compliance N9 – Hazardous Materials Disclosure Compliance N12 – Employee Training	S12 – Fueling Areas
Loading Docks	N4 – BMP Maintenance N12 – Employee Training N13 – Housekeeping of Loading Docks	S7 – Dock Areas
Streets and Parking Lots	N1 – Education for POA, Tenants, Occupants N2 – Activity Restrictions N4 – BMP Maintenance N12 – Employee Training N15 – Street Sweeping Private Streets and Parking Lots	S1 – Provide Storm Drain Stenciling and Signage

Note:

Table is intended as an example worksheet of how to consider selection of source control BMPs based on project-specific characteristics and does not include all possible project characteristics/ activities and corresponding applicable source control BMPs. Please refer to TGD for WQMP, Section 7, for Final WQMP.

Form 4.1-3 Preventative LID Site Design Practices Checklist

Site Design Practices

If yes, explain how preventative site design practice is addressed in project site plan. If no, other LID BMPs must be selected to meet targets

Minimize impervious areas: Yes ■ No ☐

Explanation:

Approximately 14% of the project are landscaped/undeveloped areas. All the impervious areas will drain into landscaped areas or into the proprietary underground infiltration trench.

Maximize natural infiltration capacity: Yes ■ No ☐

Explanation:

Runoff from impervious surfaces will be conveyed through landscaped areas so that infiltration is maximized.

Preserve existing drainage patterns and time of concentration: Yes ■ No ☐

Explanation:

Drainage will be facilitated through the existing drainage pipe into San Jose Creek Channel and into the existing underground 48" storm drain pipe underneath the sites west property line. Survey of existing site suggests similar drainage patterns.

Disconnect impervious areas: Yes ☐ No ■

Explanation:

Impervious areas will or be directed a proprietary underground infiltration CMP and trench.

Protect existing vegetation and sensitive areas: Yes ☐ No ■

Explanation:

There are no environmentally sensitive areas on site. All existing vegetation will be replaced with new proposed landscape that includes drought tolerant vegetation.

Re-vegetate disturbed areas: Yes ■ No ☐

Explanation:

Disturbed land that is not part of the building and surrounding parking lot will be re-vegetated, see landscaped areas on WQMP exhibit in Appendix A.

Minimize unnecessary compaction in stormwater retention/infiltration basin/trench areas: Yes ■ No ☐

Explanation:

No compaction will be performed within the area where the proprietary underground infiltration CMP and trench is proposed.

Utilize vegetated drainage swales in place of underground piping or imperviously lined swales: Yes ☐ No ■

Explanation:

The proposed site has runoff directed to catch basins which are conveyed through storm pipes to the underground infiltration CMP and trench

Stake off areas that will be used for landscaping to minimize compaction during construction : Yes ■ No ☐

Explanation:

No compaction will be performed within the area where landscaped areas are proposed, said areas will be staked off during construction.

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 1)

1 Project area DA 1 (ft^2):	**2** Imperviousness after applying preventative site design practices (Imp%):	**3** Runoff Coefficient (Rc):
263,476	86	0.681 *$R_c = 0.858(Imp\%)^{\wedge 3}-0.78(Imp\%)^{\wedge 2}+0.774(Imp\%)+0.04$*

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.626 *http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html*

5 Compute P_6, Mean 6-hr Precipitation (inches): 0.927

*P_6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐
48-hrs ■

7 Compute design capture volume, DCV (ft^3): 27,188

*DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)*
Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 2, if applicable)

1 Project area DA 1 (ft^2):	**2** Imperviousness after applying preventative site design practices (Imp%):	**3** Runoff Coefficient (Rc): *$R_c = 0.858(Imp\%)^{\wedge 3}-0.78(Imp\%)^{\wedge 2}+0.774(Imp\%)+0.04$*

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): *http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html*

5 Compute P_6, Mean 6-hr Precipitation (inches):

*P_6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐
48-hrs ☐

7 Compute design capture volume, DCV (ft^3):

*DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)*
Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2

Form 4.3-1 Infiltration BMP Feasibility

Feasibility Criterion – Complete evaluation for each DA on the Project Site

[1] Would infiltration BMP pose significant risk for groundwater related concerns? Yes ☐ No ■
Refer to Section 5.3.2.1 of the TGD for WQMP

If Yes, Provide basis: (attach)

[2] Would installation of infiltration BMP significantly increase the risk of geotechnical hazards? Yes ☐ No ■
(Yes, if the answer to any of the following questions is yes, as established by a geotechnical expert):

- The location is less than 50 feet away from slopes steeper than 15 percent
- The location is less than eight feet from building foundations or an alternative setback.
- A study certified by a geotechnical professional or an available watershed study determines that stormwater infiltration would result in significantly increased risks of geotechnical hazards.

If Yes, Provide basis: (attach)

[3] Would infiltration of runoff on a Project site violate downstream water rights? Yes ☐ No ■

If Yes, Provide basis: (attach)

[4] Is proposed infiltration facility located on hydrologic soil group (HSG) D soils or does the site geotechnical investigation indicate presence of soil characteristics, which support categorization as D soils? Yes ☐ No ■

If Yes, Provide basis: (attach)

[5] Is the design infiltration rate, after accounting for safety factor of 2.0, below proposed facility less than 0.3 in/hr (accounting for soil amendments)? Yes ☐ No ■

If Yes, Provide basis: (attach)

[6] Would on-site infiltration or reduction of runoff over pre-developed conditions be partially or fully inconsistent with watershed management strategies as defined in the WAP, or impair beneficial uses? Yes ☐ No ■
See Section 3.5 of the TGD for WQMP and WAP

If Yes, Provide basis: (attach)

[7] Any answer from Item 1 through Item 3 is "Yes": Yes ☐ No ■
If yes, infiltration of any volume is not feasible onsite. Proceed to Form 4.3-4, Harvest and Use BMP. If no, then proceed to Item 8 below.

[8] Any answer from Item 4 through Item 6 is "Yes": Yes ☐ No ■
If yes, infiltration is permissible but is not required to be considered. Proceed to Form 4.3-2, Hydrologic Source Control BMP. If no, then proceed to Item 9, below.

[9] All answers to Item 1 through Item 6 are "No":
Infiltration of the full DCV is potentially feasible, LID infiltration BMP must be designed to infiltrate the full DCV to the MEP. Proceed to Form 4.3-2, Hydrologic Source Control BMP.

Form 4.3-3 Infiltration LID BMP - including underground BMPs

1 Remaining LID DCV not met by site design HSC BMP (ft^3): 27,188 *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30*			
BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP) - Use additional forms for more BMPs*	DA 1 DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix D of the TGD for WQMP for minimum requirements for assessment methods*	>0.3 (estimate)		
3 Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*	2.0		
4 Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*	TBD		
5 Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*	48 hr		
6 Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*	-		
7 Ponding Depth (ft) *d_{BMP} = Minimum of (1/12*Item 4*Item 5) or Item 6*	-		
8 Infiltrating surface area, *SA_{BMP}* (ft^2) *the lesser of the area needed for infiltration of full DCV or minimum space requirements from Table 5.7 of the TGD for WQMP*	-		
9 Amended soil depth, *d_{media}* (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*	N/A		
10 Amended soil porosity	N/A		
11 Gravel depth, *d_{media}* (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*	8		
12 Gravel porosity	40%		
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*	3 hrs		
14 Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*	-		
15 Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*	27,324		
16 Total Retention Volume from LID Infiltration BMPs: 27,324 *(Sum of Items 14 and 15 for all infiltration BMP included in plan)*			
17 Fraction of DCV achieved with infiltration BMP: 100 % *Retention% = Item 16 / Form 4.2-1 Item 7*			
18 Is full LID DCV retained onsite with combination of hydrologic source control and LID retention/infiltration BMPs? Yes ■ No ☐ *If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.*			

Form 4.3-4 Harvest and Use BMPs

IF APPLICABLE

(To be considered if the full LID DCV cannot be met by maximizing Infiltration BMPs)

1 Remaining LID DCV not met by site design HSC or infiltration BMP (ft^3):
V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16

BMP Type(s) *Compute runoff volume retention from proposed harvest and use BMP (Select BMPs from Table 5-4 of the TGD for WQMP) - Use additional forms for more BMPs*	DA 1 DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Describe cistern or runoff detention facility			
3 Storage volume for proposed detention type (ft^3) *Volume of cistern*			
4 Landscaped area planned for use of harvested stormwater (ft^2)			
5 Average wet season daily irrigation demand (in/day) Use local values, typical ~ 0.1 in/day			
6 Daily water demand (ft^3/day) *Item 4 * (Item 5 / 12)*			
7 Drawdown time (hrs) *Copy Item 6 from Form 4.2-1*			
8 Retention Volume (ft^3) *$V_{retention}$ = Minimum of (Item 3) or (Item 6 * (Item 7 / 24))*			

9 Total Retention Volume (ft^3) from Harvest and Use BMP
Sum of Item 8 for all harvest and use BMP included in plan

10 Is the full DCV retained with a combination of LID HSC, retention and infiltration, and harvest & use BMPs? Yes ☐ No ☐
If yes, demonstrate conformance using Form 4.3-10. If no, then re-evaluate combinations of all LID BMP and optimize their implementation such that the maximum portion of the DCV is retained on-site (using a single BMP type or combination of BMP types). If the full DCV cannot be mitigated after this optimization process, proceed to Section 4.3.4.

Form 4.3-5 Selection and Evaluation of Biotreatment BMP

IF APPLICABLE

(To be considered if the full LID DCV cannot be met by maximizing Infiltration, and Harvest and Use BMPs)

1 Remaining LID DCV not met by site design HSC, infiltration, or harvest and use BMP for potential biotreatment (ft^3): *Form 4.2-1 Item 7 - Form 4.3-2 Item 30 – Form 4.3-3 Item 16- Form 4.3-4 Item 9*	List pollutants of concern *Copy from Form 2.3-1.*	
2 Biotreatment BMP Selected *(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)*	Volume-based biotreatment *Use Forms 4.3-6 and 4.3-7 to compute treated volume*	Flow-based biotreatment *Use Form 4.3-8 to compute treated volume*
	☐ Bioretention with underdrain ☐ Planter box with underdrain ☐ Constructed wetlands ☐ Wet extended detention ☐ Dry extended detention	☐ Vegetated swale ☐ Vegetated filter strip ☐ Proprietary biotreatment

3 Volume biotreated in volume based biotreatment BMP (ft^3): *Form 4.3-6 Item 15 + Form 4.3-7 Item 13*	**4** Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft^3): *Item 1 – Item 3*	**5** Remaining fraction of LID DCV for sizing flow based biotreatment BMP: 100% *Item 4 / Item 1*

6 Flow-based biotreatment BMP capacity provided (cfs): *Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)*

7 Metrics for MEP determination:

- Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development: ☐ *If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.*

Site Plan

Include a Site Plan (24" x 36") containing the following minimum information:

1) Project location
2) Site boundary
3) Land uses and land covers, as applicable
4) Suitability/ Feasibility constraints
5) LID Site Design BMP locations
6) Drainage delineation and flow information
7) Drainage connections, if applicable
8) LID Treatment Control BMP locations

Notes:

1) Preliminary WQMP requirements (LID Site Design BMP, LID Treatment Control BMP), if applicable, must be incorporated into the project design and shown on project plans prior to entitlement approval.
2) Upon Preliminary WQMP review, if proposed project presents environmental concerns or impact, the City could impose additional water quality requirements in the Conditions prior to entitlement approval on a case by case basis.

ATTACHMENT A: WQMP SITE PLAN

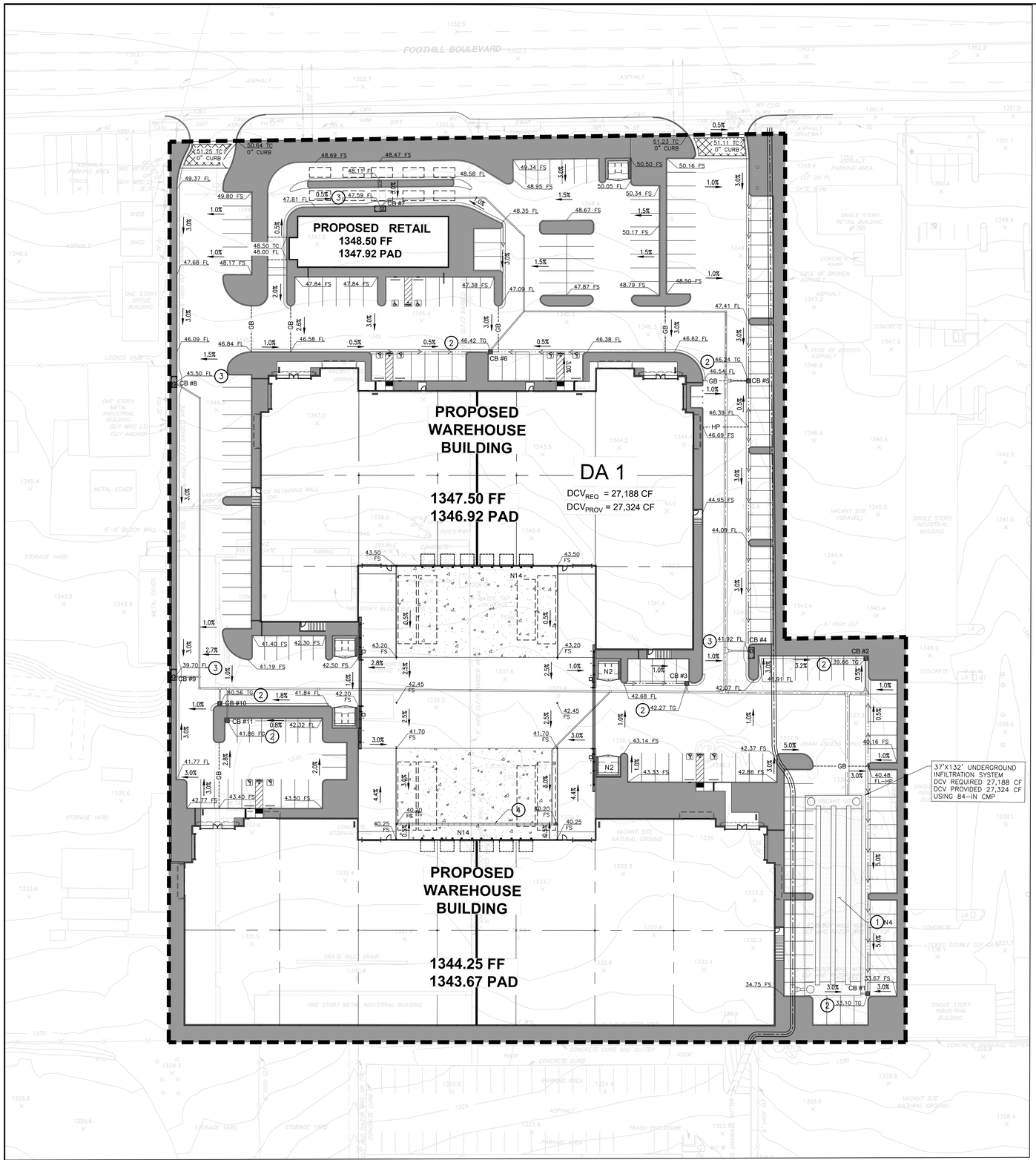
ATTACHMENT B: BMP DETAILS, FACT SHEETS

ATTACHMENT C: EDUCATIONAL MATERIALS

ATTACHMENT D: GEOTECHNICAL REPORT

ATTACHMENT E: RAINFALL DATA (NOAA ATLAS 14)

Attachment A
WQMP Site Plan



WQMP BMP NOTES:

1. INSTALL CONTECH UNDERGROUND 84" CMP INFILTRATION SYSTEM, SEE DETAIL ON SHEET TWO
2. INSTALL BIOCLEAN GRATE INLET FILTER, SEE DETAIL ON SHEET THREE
3. INSTALL BIOCLEAN CURB INLET FILTER, SEE DETAIL ON SHEET THREE
4. INSTALL FLO-GARD TRENCH DRAIN STYLE INLET FILTER, SEE DETAIL ON SHEET THREE

WQMP MANAGEMENT

NAME	AREA (SF)	i	C	DCV$_{REQ}$(CF)	BMP	DCV$_{PROV}$(CF)
DA 1	263,476	0.87	0.68	27,188	INFILTRATION BASIN	27,324

LEGEND

- PROPOSED LANDSCAPING AREA (N3, S4, AND S5)
- DRAINAGE BOUNDARY
- PROPERTY BOUNDARY
- 1.0% — SURFACE GRADE AND FLOW DIRECTION
- CB — CATCH BASIN
- CURB INLET

SOURCE CONTROL BMPs INCLUDED ONSITE		
IDENTIFIER	DESCRIPTION OF BMP	RESPONSIBLE PARTY
N2	INSPECT/MAINTAIN TRASH CONTAINER	OWNER
N3	LANDSCAPE MAINTENANCE BMP'S	OWNER
N4	INSPECT/MAINTAIN UG-INFILTRATION BASIN	OWNER
N7	PROVIDE SPILL PLAN	OWNER
N11	LITTER/DEBRIS CONTROL PROGRAM	OWNER
N13	CATCH BASIN CONTROL PROGRAM	OWNER
N14	HOUSEKEEPING OF LOADING DOCKS	OWNER
N15	VACUUM SWEEPING OF PARKING LOTS	OWNER
N17	NPDES COMPLIANCE	OWNER
S1	STORM DRAIN STENCILING	OWNER
S3	REDUCED WASTE STORAGE POLLUTION	OWNER
S4	EFFICIENT IRRIGATION SYSTEM	OWNER
S5	LANDSCAPING MIN. 1-2" BELOW CURB	OWNER

N

0 15 30 60 90

SCALE 1" = 30'

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

IMPORTANT NOTICE

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE: 811 TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER JOAN J. WASSEL No. 49830 CIVIL STATE OF CALIFORNIA

NO	REVISION	PREP.	APPVD.	DATE

PREPARED BY:
HUITT-ZOLLARS
Huitt-Zollars, Inc. Thousand Oaks
90 E. Thousand Oaks Boulevard
Suite 201
Thousand Oaks, California 91360
Phone (805) 418-1802 Fax (805) 418-1819

PREPARED FOR:
MVP
MAGELLAN VALUE PARTNERS, LLC
1900 AVENUE OF THE STARS, SUITE 2470
LOS ANGELES, CA 90067
PHONE (310) 507-9791

CITY OF UPLAND, CALIFORNIA

WATER QUALITY MANAGEMENT SITE PLAN

DRAWN BY:	1750-1780 WEST FOOTHILL BLVD. UPLAND, CA 91786	SCALE: SEE PLAN
DESIGNED BY:		DATE: 10/10/2022
CHECKED BY:	APPROVED BY: DATE: CITY ENGINEER R.C.E. NO.	DRAWING NO.: 1/3

FILENAME: R:\R313490.01 - Magellan - 1750 Foothill Blvd\10 CADD & BIM\10.13 Civil\31349001-WQMP_Site-Plan.dwg Oct 10 2022 10:09am

FILENAME: R:\R313490.01 - Magellan - 1750 Foothill Blvd\10 CADD & BIM\10.13 Civil\3134900I-WQMP_Site-Plan.dwg Oct 10 2022 10:09am

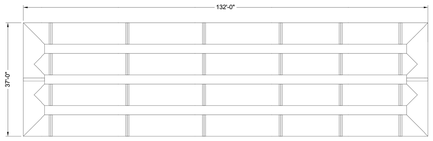
PROJECT SUMMARY

CALCULATION DETAILS
- LOADING = HS20 & HS25
- APPROX. LINEAR FOOTAGE = 546 lf.

STORAGE SUMMARY
- STORAGE VOLUME REQUIRED = 27,188 cf.
- PIPE STORAGE VOLUME = 21,013 cf.
- BACKFILL STORAGE VOLUME = 6,228 cf.
- TOTAL STORAGE PROVIDED = 27,240 cf.

PIPE DETAILS
- DIAMETER = 84 IN.
- CORRUGATION = 5x1
- GAGE = 16
- COATING = ALT2
- WALL TYPE = Perforated
- BARRELL SPACING = 36 IN.

BACKFILL DETAILS
- WIDTH AT ENDS = 12 IN.
- ABOVE PIPE = 0 IN.
- WIDTH AT SIDES = 12 IN.
- BELOW PIPE = 0 IN.



ASSEMBLY
SCALE: 1" = 20'

NOTES

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE 2⅔" x ½" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BAND TYPE TO BE DETERMINED UPON FINAL DESIGN.
- THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN, QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION FOOTPRINT.
- THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

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DATE	REVISION DESCRIPTION	BY

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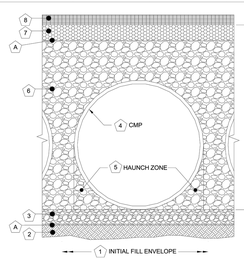
800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CMP DETENTION SYSTEMS
CONTECH DYODS DRAWING

DYO13529 Magellan
CMP 1
Upland, CA
DETENTION SYSTEM

PROJECT No.:	SEQ. No.:	DATE:
8501	13029	3/17/2022
DESIGNED: DYO	DRAWN: DYO	
CHECKED: DYO	APPROVED: DYO	
SHEET NO.: D1		



Infiltration Systems - CMP Infiltration & CMP Perforated Drainage Pipe			
Material Location	Description	Material Designation	Designation
8 Rigid or Flexible Pavement (if applicable)			
7 Road Base (if applicable			
A Geotextile Layer	Non-Woven Geotextile	CONTECH C-40 or C-45	Engineer Decision for consideration to prevent soil migration into varying soil types. Wrap the trench only.
6 Backfill	Infiltration pipe systems have a pipe perforation sized of 3/8" diameter. An open graded, free draining stone, with a particle size of ½" – 2 ½" diameter is recommended.	AASHTO M 145-A-1 or AASHTO M 43 - 3, 4	Material shall be worked into the pipe haunches by means of shovel-slicing, rodding, air-tamper, vibratory rod, or other effective methods. Compaction of all placed fill material is necessary and shall be considered adequate when no further yielding of the material is observed under the compactor, or under foot, and the Project Engineer or his representative is satisfied with the level of compaction.
3 Bedding Stone	Well graded granular bedding material w/maximum particle size of 3"	AASHTO M43 - 3,357,4,467, 5, 56, 57	For soil aggregates larger than the dedicated bedding, the top of the bedding of CMP Pipe may be placed on the trench bottom comprised of native suitable well graded & granular material. For Arch pipes it is recommended to be shaped to a relatively flat bottom or fine-grade the foundation to a slight v-shape. Soil aggregates less than 3/8" and unsuitable material should be over-excavated and re-placed with a 4"-6" layer of well graded & granular stone per the material designation.
A Geotextile Layer	None	None	Contech does not recommend geotextiles be placed under the invert of infiltration systems due to the propensity for geotextiles to clog over time.

★ Note: The listed AASHTO designations are for gradation only. The stone must also be angular and clean.

1 MINIMUM WIDTH DEPENDS ON SITE CONDITIONS AND ENGINEERING JUDGEMENT.

FOUNDATION/BEDDING PREPARATION

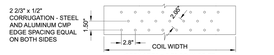
2 PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND BROUGHT BACK TO THE GRADE WITH A FILL MATERIAL AS APPROVED BY THE ENGINEER.

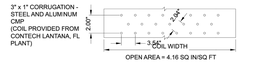
5 HAUNCH ZONE MATERIAL SHALL BE PLACED AND UNIFORMLY COMPACTED WITHOUT SOFT SPOTS.

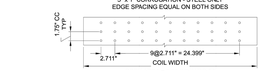
BACKFILL
MATERIAL SHALL BE PLACED IN 8"-10" MAXIMUM LIFTS. INADEQUATE COMPACTION CAN LEAD TO EXCESSIVE DEFLECTIONS WITHIN THE SYSTEM AND SETTLEMENT OF THE SOILS OVER THE SYSTEM. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO-LIFT DIFFERENTIAL BETWEEN THE SIDES OF ANY PIPE IN THE SYSTEM AT ALL TIMES DURING THE BACKFILL PROCESS. BACKFILL SHALL BE ADVANCED ALONG THE LENGTH OF THE SYSTEM AT THE SAME RATE TO AVOID DIFFERENTIAL LOADING ON ANY PIPES IN THE SYSTEM.

EQUIPMENT USED TO PLACE AND COMPACT THE BACKFILL SHALL BE OF A SIZE AND TYPE SO AS NOT TO DISTORT, DAMAGE, OR DISPLACE THE PIPE. ATTENTION MUST BE GIVEN TO PROVIDING ADEQUATE MINIMUM COVER FOR SUCH EQUIPMENT. MAINTAIN BALANCED LOADING ON ALL PIPES IN THE SYSTEM DURING ALL SUCH OPERATIONS.

OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS. REFER TO TYPICAL BACKFILL DETAIL FOR MATERIAL REQUIRED.

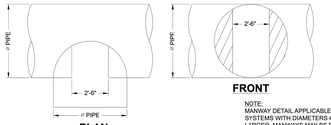






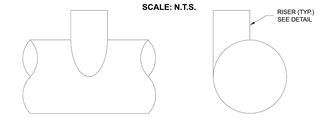
NOTES:
1. PERFORATIONS MEET AASHTO AND ASTM SPECIFICATIONS.
2. PERFORATION OPEN AREA PER SQUARE FOOT OF PIPE IS BASED ON THE NOMINAL DIAMETER AND LENGTH OF PIPE.
3. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
4. ALL HOLES ½"Ø"

TYPICAL PERFORATION DETAIL
SCALE: N.T.S.



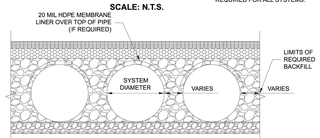
NOTE:
MANWAY DETAIL APPLICABLE FOR CMP SYSTEMS WITH DIAMETERS 48" AND LARGER. MANWAYS MAY BE REQUIRED ON SMALLER SYSTEMS DEPENDING ON ACTUAL SITE SPECIFIC CONDITIONS.

TYPICAL MANWAY DETAIL
SCALE: N.T.S.



NOTE:
LADDERS ARE OPTIONAL AND ARE NOT REQUIRED FOR ALL SYSTEMS.

TYPICAL RISER DETAIL
SCALE: N.T.S.



TYPICAL SECTION VIEW
LINER OVER ROWS
SCALE: N.T.S.

NOTE: IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, AN HDPE MEMBRANE LINER IS RECOMMENDED WITH THE SYSTEM. THE IMPERMEABLE LINER IS INTENDED TO HELP PROTTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

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CONTECH CMP DETENTION SYSTEMS
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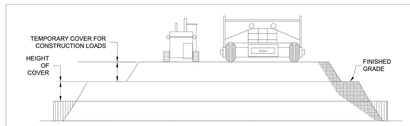
DYO13529 Magellan
CMP 1
Upland, CA
DETENTION SYSTEM

PROJECT No.:	SEQ. No.:	DATE:
8501	13029	3/17/2022
DESIGNED: DYO	DRAWN: DYO	
CHECKED: DYO	APPROVED: DYO	
SHEET NO.: D2		



CONSTRUCTION LOADS

FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
	MINIMUM COVER (FT)			
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

CONSTRUCTION LOADING DIAGRAM
SCALE: N.T.S.

SPECIFICATION FOR DESIGNED DETENTION SYSTEM:

SCOPE
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE DESIGNED DETENTION SYSTEM DETAILED IN THE PROJECT PLANS.

MATERIAL
THE MATERIAL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW:

ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-274 OR ASTM A-92.

THE GALVANIZED STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-218 OR ASTM A-929.

THE POLYMER COATED STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-246 OR ASTM A-742.

THE ALUMINUM COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-197 OR ASTM B-744.

CONSTRUCTION LOADS
CONSTRUCTION LOADS MAY BE HIGHER THAN FINAL LOADS. FOLLOW THE MANUFACTURER'S OR NCSPA GUIDELINES.

NOTE:
THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

PIPE
THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE TO THE APPLICABLE REQUIREMENTS LISTED BELOW:

ALUMINIZED TYPE 2: AASHTO M-36 OR ASTM A-760

GALVANIZED: AASHTO M-36 OR ASTM A-760

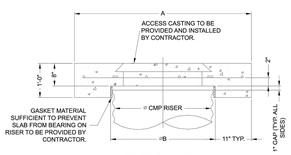
POLYMER COATED: AASHTO M-245 OR ASTM A-762

ALUMINUM: AASHTO M-196 OR ASTM B-745

HANDLING AND ASSEMBLY
SHALL BE IN ACCORDANCE WITH NCSPS (NATIONAL CORRUGATED STEEL PIPE ASSOCIATION) FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL. SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR ALUMINUM PIPE.

INSTALLATION
SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II DIVISION II OR ASTM A-796 (FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL) OR ASTM B-788 (FOR ALUMINUM PIPE) AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

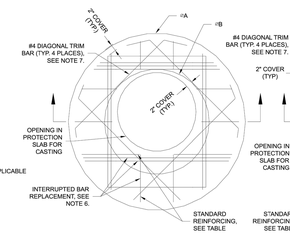
IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.



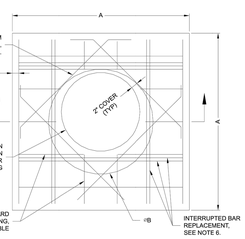
SECTION VIEW

REINFORCING TABLE				
ø CMP RISER	A	ø B	REINFORCING	**BEARING PRESSURE (PSF)
24"	ø 4' 4X4'	26"	#5 @ 12" OCEW #5 @ 12" OCEW	2,410 1,780
30"	ø 4'-6" 4'-6" X 4'-6"	32"	#5 @ 12" OCEW #5 @ 12" OCEW	2,120 1,530
36"	ø 5' 5' X 5'	38"	#5 @ 10" OCEW #5 @ 10" OCEW	1,890 1,350
42"	ø 5'-6" 5'-6" X 5'-6"	44"	#5 @ 9" OCEW #5 @ 9" OCEW	1,720 1,210
48"	ø 6' 6' X 6'	50"	#5 @ 9" OCEW #5 @ 9" OCEW	1,600 1,100

** ASSUMED SOIL BEARING CAPACITY



ROUND OPTION PLAN VIEW



SQUARE OPTION PLAN VIEW

NOTES:
1. DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION.
2. DESIGN LOAD HS25.
3. EARTH COVER = 1' MAX.
4. CONCRETE STRENGTH = 3,500 psi
5. REINFORCING STEEL = ASTM A615, GRADE 60.
6. PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
7. TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
8. PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
9. DETAIL DESIGN BY DELTA ENGINEERING, BINGHAMTON, NY.

MANHOLE CAP DETAIL
SCALE: N.T.S.

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DATE	REVISION DESCRIPTION	BY

CONTECH ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH CMP DETENTION SYSTEMS
CONTECH DYODS DRAWING

DYO13529 Magellan
CMP 1
Upland, CA
DETENTION SYSTEM

PROJECT No.:	SEQ. No.:	DATE:
8501	13029	3/17/2022
DESIGNED: DYO	DRAWN: DYO	
CHECKED: DYO	APPROVED: DYO	
SHEET NO.: D3		

CMP DETENTION INSTALLATION GUIDE

PROPER INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS STRONGLY SUGGESTS SCHEDULING A PRE-CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES, NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

FOUNDATION

CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADING APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHT AS WELL AS MAINTAIN ITS INTEGRITY DURING CONSTRUCTION.

IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPETENT BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES, WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR PAVEMENT ABOVE. IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERLYING SOILS AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STIFF REINFORCING GEOGRID REDUCES OVER EXCAVATION AND REPLACEMENT FILL QUANTITIES.

GRADE THE FOUNDATION SUBGRADE TO A UNIFORM OR SLIGHTLY SLOPING GRADE. IF THE SUBGRADE IS CLAY OR RELATIVELY NON-POROUS AND THE CONSTRUCTION SEQUENCE WILL LAST FOR AN EXTENDED PERIOD OF TIME, IT IS BEST TO SLOPE THE GRADE TO ONE END OF THE SYSTEM. THIS WILL ALLOW EXCESS WATER TO DRAIN QUICKLY, PREVENTING SATURATION OF THE SUBGRADE.

GEOMEMBRANE BARRIER

A SITE'S RESISTANCE MAY CHANGE OVER TIME WHEN VARIOUS TYPES OF SALTING AGENTS ARE USED, SUCH AS ROAD SALTS FOR DEICING AGENTS. IF SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE, A GEOMEMBRANE BARRIER IS RECOMMENDED WITH THE SYSTEM. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM THE USE OF SUCH AGENTS INCLUDING PREMATURE CORROSION AND REDUCED ACTUAL SERVICE LIFE.

THE PROJECT'S ENGINEER OF RECORD IS TO EVALUATE WHETHER SALTING AGENTS WILL BE USED ON OR NEAR THE PROJECT SITE, AND USE HIS/HER BEST JUDGEMENT TO DETERMINE IF ANY ADDITIONAL PROTECTIVE MEASURES ARE REQUIRED. BELOW IS A TYPICAL DETAIL SHOWING THE PLACEMENT OF A GEOMEMBRANE BARRIER FOR PROJECTS WHERE SALTING AGENTS ARE USED ON OR NEAR THE PROJECT SITE.

IN-SITU TRENCH WALL

IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE SHEDS AS THE SYSTEM IS LOADED. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFLECT. PERFORM A SIMPLE SOIL PRESSURE CHECK USING THE APPLIED LOADS TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE SPRING LINE OF THE OUTER MOST PIPES.

IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.

BACKFILL PLACEMENT

MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVEL-SLICING, RODDING, AIR TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS.

IF AASHTO T99 PROCEDURES ARE DETERMINED INFEASIBLE BY THE GEOTECHNICAL ENGINEER OF RECORD, COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE GEOTECHNICAL ENGINEER OF RECORD (OR REPRESENTATIVE THEREOF) IS SATISFIED WITH THE LEVEL OF COMPACTION.

FOR LARGE SYSTEMS, CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR DRAGLINES WITH STONE BUCKETS MAY BE USED TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADING ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL, AND BEGIN THE SEQUENCE AGAIN UNTIL THE SYSTEM IS COMPLETELY BACKFILLED. THIS TYPE OF CONSTRUCTION SEQUENCE PROVIDES ROOM FOR STOCKPILED BACKFILL DIRECTLY BEHIND THE BACKHOE, AS WELL AS THE MOVEMENT OF CONSTRUCTION TRAFFIC. MATERIAL STOCKPILES ON TOP OF THE BACKFILLED DETENTION SYSTEM SHOULD BE LIMITED TO 8- TO 10-FEET HIGH AND MUST PROVIDE BALANCED LOADING ACROSS ALL BARRELS. TO DETERMINE THE PROPER COVER OVER THE PIPES TO ALLOW THE MOVEMENT OF CONSTRUCTION EQUIPMENT SEE TABLE 1, OR CONTACT YOUR LOCAL CONTECH SALES ENGINEER.

WHEN FLOWABLE FILL IS USED, YOU MUST PREVENT PIPE FLOATATION. TYPICALLY, SMALL LIFTS ARE PLACED BETWEEN THE PIPES AND THEN ALLOWED TO SET-UP PRIOR TO THE PLACEMENT OF THE NEXT LIFT. THE ALLOWABLE THICKNESS OF THE CLSM LIFT IS A FUNCTION OF A PROPER BALANCE BETWEEN THE UPLIFT FORCE OF THE CLSM, THE OPPOSING WEIGHT OF THE PIPE, AND THE EFFECT OF OTHER RESTRAINING MEASURES. THE PIPE CAN CARRY LIMITED FLUID PRESSURE WITHOUT PIPE DISTORTION OR DISPLACEMENT, WHICH ALSO AFFECTS THE CLSM LIFT THICKNESS. YOUR LOCAL CONTECH SALES ENGINEER CAN HELP DETERMINE THE PROPER LIFT THICKNESS.

CONSTRUCTION LOADING

TYPICALLY, THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

ADDITIONAL CONSIDERATIONS

BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW-GRADE, RAINFALL CAN RAPIDLY FILL THE EXCAVATION; POTENTIALLY CAUSING FLOATATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PROBLEMS, IT IS BEST TO START THE INSTALLATION AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR THE WATER TO ESCAPE. TEMPORARY DIVERSION MEASURES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.

CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE

UNDERGROUND STORMWATER DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION

INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND IS EASILY PERFORMED. CONTECH RECOMMENDS ONGOING, ANNUAL INSPECTIONS. SITES WITH HIGH TRASH LOAD OR SMALL OUTLET CONTROL ORIFICES MAY NEED MORE FREQUENT INSPECTIONS. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DEPEND MORE ON SITE SPECIFIC ACTIVITIES RATHER THAN THE SIZE OR CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT WASHDOWN AREAS, IN CLIMATES WHERE SANDING AND/OR SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS INSTANCES IN WHICH ONE WOULD EXPECT HIGHER ACCUMULATIONS OF SEDIMENT OR ABRASIVE/CORROSIVE CONDITIONS A RECORD OF EACH INSPECTION IS TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM

MAINTENANCE

CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVACUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEATED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESS/INSPECTION MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET ORIFICE. SHOULD IT BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES, ALL APPROPRIATE PRECAUTIONS REGARDING CONFINED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. DURING THIS INSPECTION, IF EVIDENCE OF SALTING/DE-ICING AGENTS IS OBSERVED W

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BIO CLEAN FULL CAPTURE FILTER WITH TROUGH SYSTEM

FOR USE IN CURB INLETS WITH WINGS

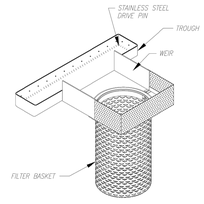

FIGURE 1: DETAIL OF PARTS

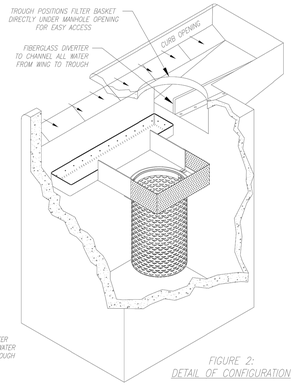

FIGURE 2: DETAIL OF CONFIGURATION

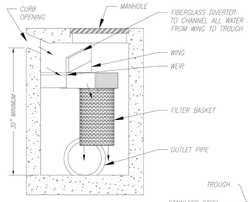

FIGURE 4: DETAIL OF PROFILE

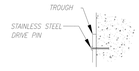

FIGURE 3: DETAIL OF MOUNTING

NOTES:

1. TROUGH SYSTEM PROVIDES FOR ENTIRE COVERAGE OF INLET OPENING SO TO DIVERT ALL FLOW TO FILTER.
2. TROUGH SYSTEM MANUFACTURED FROM MARINE GRADE FIBERGLASS, GEL COATED FOR UV PROTECTION.
3. SYSTEM ATTACHED TO THE CATCH BASIN WITH NON-CORROSIVE HARDWARE.
4. FILTER MANUFACTURED OF 100% STAINLESS STEEL.
5. FILTER MADE OF NON-CLOGGIN SCREEN WITH 4.7 MM OPENINGS AND MEETS FULL CAPTURE REQUIREMENTS.
6. FILTER CAN BE FITTED WITH HYDROCARBON ABSORBENT BOOM
7. FILTER IS LOCATED DIRECTLY UNDER THE MANHOLE FOR EASY REMOVAL AND MAINTENANCE.
8. LENGTH OF TROUGH CAN VARY FROM 2' TO 30'
9. OTHER STANDARD AND CUSTOM MODEL SIZES AVAILABLE – CONTACT BIO CLEAN FOR MORE INFORMATION.
10. CONSIDERS A SAFETY FACTOR OF 2.0
11. BYPASS IS FACILITATED VIA OVERFLOW OF THE TROUGH SYSTEM AND IS EQUAL TO THE CAPACITY OF THE CURB OPENING
12. STORAGE CAPACITY BASED ON THE BASKET HALF FULL.
13. ADDITIONAL TREATMENT AND STORAGE CAPACITY CAN BE ACHIEVED BY UTILIZING MULTIPLE FILTER BASKETS.

DRAWING: BIO CLEAN CURB INLET FILTER DETAILS		MEETS FULL CAPTURE REQUIREMENTS	
TREATMENT FLOW RATE: 2.85 cfs		MODEL #: BC-CURB-FC	
WARRANTY: 5 YEAR MANUFACTURERS		PROJECT:	
BIO CLEAN ENVIRONMENTAL SERVICES, INC. 398 VIA EL CENTRO, OCEANSIDE CA 92058 PHONE:760-433-7640 FAX:760-433-3176		REVISIONS:	DATE:
		REVISIONS:	DATE:
DATE: 10/12/2017	SCALE: NTS	REVISIONS:	DATE:
DRAFTER: M.C.P.	UNITS = INCHES	REVISIONS:	DATE:

Bio Clean
A Forterra Company

PAGE 3

MODEL # BC-CURB-FC FILTER

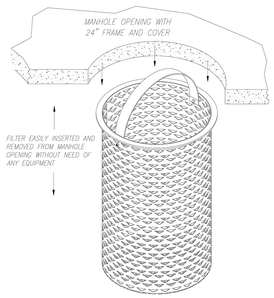

FIGURE 1: DETAIL OF INSTALLATION

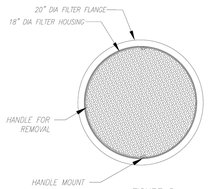

FIGURE 2: DETAIL OF DIAMETERS

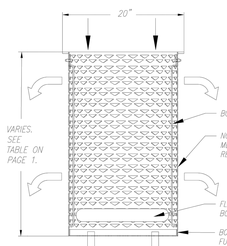

FIGURE 3: DETAIL OF PARTS

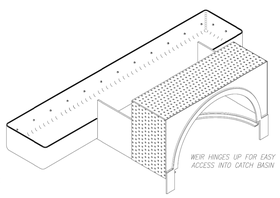

FIGURE 4: DETAIL OF WEIR

FLOW RATES – CURB FILTER

TREATMENT FLOW RATE	2.85 cfs	SAFETY FACTOR OF 2X	
*TREATMENT FLOW RATE IS BASED ON THE CRITICAL POINT OF RESTRICTION, WHICH IS EITHER THE WEIR OR THE SCREEN CAPACITIES.		WEIR CAPACITY=2.85 CFS SCREEN CAPACITY=4.82 CFS	

**FLOW RATES CALCULATED USING THE FOLLOWING EQUATION $Q=5OC_d*A\sqrt{2g*h}$ C_d = COEFFICIENT of DISCHARGE = .62

DRAWING: BC-CURB-FC FILTER		MEETS FULL CAPTURE REQUIREMENTS	SEE PAGE 1 FOR NOTES
TREATMENT FLOW RATE: 2.85 cfs		MODEL #: BC-CURB-FC	
WARRANTY: 5 YEAR MANUFACTURERS		PROJECT:	
BIO CLEAN ENVIRONMENTAL SERVICES, INC. 398 VIA EL CENTRO, OCEANSIDE CA 92058 PHONE:760-433-7640 FAX:760-433-3176		REVISIONS:	DATE:
		REVISIONS:	DATE:
DATE: 10/12/2017	SCALE: NTS	REVISIONS:	DATE:
DRAFTER: M.C.P.	UNITS = INCHES	REVISIONS:	DATE:

Bio Clean
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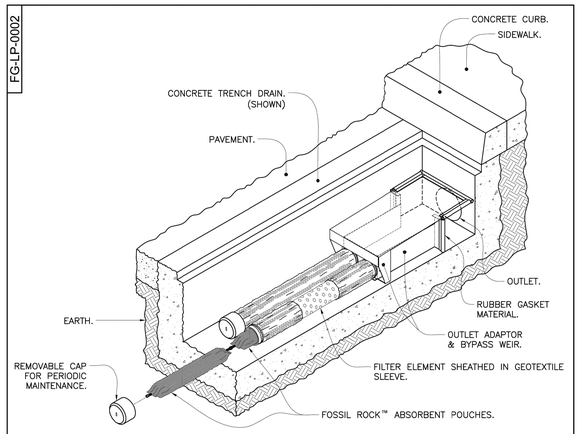
PAGE 2

3 **CURB INLET FILTER**

NOT TO SCALE

FG-LP-0002



NOTES:

1. Filter insert shall have a high flow bypass feature.
2. Filter outlet adapter shall be constructed from stainless steel Type 304. Alternate outlet adaptor for shallow installations shall be PVC SCH-40. See detail B, sheet 2 of 2.
3. Filter medium shall be *Fossil Rock ™*, installed and maintained in accordance with manufacturer specifications.
4. Storage capacity reflects 80% of maximum solids collection prior to impeding filtering bypass.
5. For alternate outlet adapter configurations used for extremely shallow trench drains contact Oldcastle Stormwater Solutions for engineering assistance.
6. Filter element should be a minimum of one half the length of trench. Confirm flow rate upon order.

Inlet Filtration

FloGard®
Catch Basin Insert Filter
Trench Drain Style

Oldcastle® Stormwater Solutions
7321 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com

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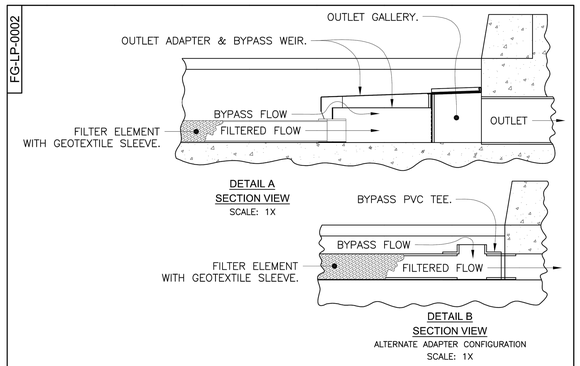
DRAWING NO.	REV	ECO	DATE	
FG-LP-0002	H	ECO-0142 JPR 7/13/16	JPR 2/21/07	SHEET 1 OF 2

FG-LP-0002



SPECIFIER CHART

MODEL	FILTER TYPE	TRENCH WIDTH "ID" (CLEAR OPENING)	MINIMUM TRENCH DEPTH (FROM BOTTOM OF GRATE)	SOLIDS STORAGE CAPACITY CUBIC FEET **	FILTERED FLOW CUBIC FEET / SECOND **	TOTAL BYPASS CAPACITY CUBIC FEET /SECOND
FG-TDOF3	PIPE *	3.0	6.5	0.1	0.5	0.1
FG-TDOF4	PIPE *	4.0	6.5	0.2	0.5	0.1
FG-TDOF6	PIPE	6.0	6.5	0.4	0.5	0.2
FG-TDOF8	PIPE	8.0	6.5	0.7	0.5	0.3
FG-TDOF10	PIPE	10.0	6.5	0.9	0.5	0.5
FG-TDOF12	PIPE	12.0	6.5	0.9	1.0	0.6
FG-TDOF18	PIPE	18.0	6.5	1.3	1.5	1.1
FG-TDOF24	PIPE	24.0	6.5	1.8	2.0	1.5
FG-TDOA6	PANEL	6.0	4.5	0.4	0.2	0.2
FG-TDOA8	PANEL	8.0	4.5	0.7	0.2	0.3
FG-TDOA10	PANEL	10.0	4.5	0.8	0.3	0.5
FG-TDOA12	PANEL	12.0	4.5	1.0	0.4	0.6
FG-TDOA18	PANEL	18.0	4.5	1.4	0.8	1.1
FG-TDOA24	PANEL	24.0	4.5	1.8	1.1	1.5

* ALTERNATE ADAPTER CONFIGURATION. SEE DETAIL B.
**CAPACITY PER 5-FT. SEGMENT USED.

Inlet Filtration

FloGard®
Catch Basin Insert Filter
Trench Drain Style

Oldcastle® Stormwater Solutions
7321 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com

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DRAWING NO.	REV	ECO	DATE	
FG-LP-0002	H	ECO-0142 JPR 7/13/16	JPR 2/21/07	SHEET 2 OF 2

4 **TRENCH DRAIN INSERT FILTER**

NOT TO SCALE

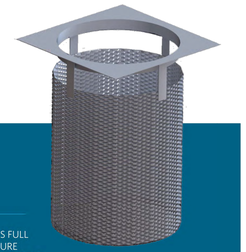
OVERVIEW

The Bio Clean Grate Inlet Filter for catch basins is a filter system that is designed to capture fine to coarse sediments, floatable trash, debris, and hydrocarbons conveyed in stormwater runoff.

The filter system is available in three different model types: Full Capture, Multi-Level Screening (MLS), and the revolutionary Kraken Type media filter model.

Constructed of 100% high-grade stainless steel, it is built to last longer than any other filter brand. The non-clogging screens provide higher levels of filtration and water flow. The filter is equipped with unimpeded high flow bypass to prevent backflow during the largest storm events. The filter is also equipped with a floating hydrocarbon boom mounted to rails allowing it to flow up and down with the water level to provide constant oil and grease removal.

The filter is designed for grated inlets of any size and depth. Each filter can be custom built to meet specific project needs. Screen size and media type can be modified to remove specific pollutants.



FULL TRASH CAPTURE TYPE

PERFORMANCE

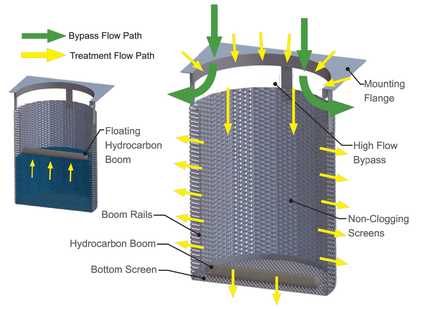
100% REMOVAL OF TRASH AND DEBRIS

- MEETS FULL CAPTURE REQUIREMENTS

ADVANTAGES

- 8-YEAR WARRANTY
- CUSTOM SIZES AVAILABLE
- NO NETS OR GEOFABRICS
- 15+ YEARS USER LIFE
- NO REPLACEMENT COSTS AS FOUND WITH FABRIC FILTERS
- MEETS LEED REQUIREMENTS
- FITS IN SHALLOW CATCH BASINS

OPERATION



SPECIFICATIONS

MODEL #	TREATMENT FLOW (cfs)	BYPASS FLOW (cfs)
BIO-GRATE-FULL-12-12-12	1.55	1.55
BIO-GRATE-FULL-18-18-18	4.32	3.68
BIO-GRATE-FULL-24-24-24	7.67	4.83
BIO-GRATE-FULL-30-30-24	12.97	6.21
BIO-GRATE-FULL-25-38-24	13.53	6.59
BIO-GRATE-FULL-36-36-24	19.64	7.60
BIO-GRATE-FULL-48-48-18	25.59	10.13

NOTE: Treatment and bypass flow rates include a safety factor of 2.

2 **GRATE INLET FILTER**

NOT TO SCALE

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

IMPORTANT NOTICE

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE: 811 TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER JOHN J. VIZZOLINI No. 49830 CIVIL STATE OF CALIFORNIA

NO	REVISION	PREP.	APPVD.	DATE

PREPARED BY:
HUITT-ZOLLARS
Huitt-Zollars, Inc. Thousand Oaks
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LOS ANGELES, CA 90067
PHONE (310) 507-9791

CITY OF UPLAND, CALIFORNIA
WATER QUALITY MANAGEMENT SITE PLAN

DRAWN BY:	1750–1780 WEST FOOTHILL BLVD. UPLAND, CA 91786	SCALE:
DESIGNED BY:		DATE: 10/10/2022
CHECKED BY:	APPROVED BY: _____ DATE: _____ CITY ENGINEER R.C.E. NO.	DRAWING NO.: 3/3

Attachment B

BMP Details and Fact Sheets

CONTECH®
ENGINEERED SOLUTIONS

Corrugated Metal Pipe Design Guide

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Durability Design Guide for Drainage Products

Proper design of culverts and storm sewers requires structural, hydraulic and durability considerations. While most designers are comfortable with structural and hydraulic design, the mechanics of evaluating abrasion, corrosion and water chemistry to perform a durability design are not commonly found in most civil engineering handbooks.

The durability and service life of a drainage pipe installation is directly related to the environmental conditions encountered at the site and the type of materials and coatings from which the culvert is fabricated. Two principle causes of early failure in drainage pipe materials are corrosion and abrasion.

Service life can be affected by the corrosive action of the backfill in contact with the outside of a drainage pipe or more commonly by the corrosive and abrasive action of the flow in the invert of the drainage pipe. The design life analysis should include a check for both the water side and soil side environments to determine which is more critical— or which governs service life.

The potential for metal loss in the invert of a drainage pipe due to abrasive flows is often overlooked by designers and its effects are often mistaken for corrosion. An estimate for potential abrasion is required at each pipe location in order to determine the appropriate material and gage.

This manual is intended to guide specifiers through the mechanics of selecting appropriate drainage products to meet service life requirements. The information contained in the following pages is a composite of several national guidelines.

Using the Design Guide

The choice of material, gage and product type can be extremely important to service life. The following steps describe the procedure for selecting the appropriate drainage product, material and gage to meet a specific service life requirement.

Design Sequence

1. Select pipe or structure based on hydraulic and clearance requirements. Use Tables 4 and 5 as reference for size limits and hydraulic properties of all drainage products.
2. Use Height of Cover tables for the chosen pipe or structure to determine the material gage required for the specific loading condition.
3. Use Table 1 to select the appropriate material for the site-specific environmental conditions. Whenever possible, existing installations of drainage structures along the same water course offer the most reliable estimate of long-term performance for specific environment conditions. In many cases, there will be more than one material that is appropriate for the project environmental conditions. Generally speaking, the metal material types increase in price as you move from top down on Table 1. Please contact your local CONTECH Sales Representative for pricing.
4. Use Table 2 to determine which abrasion level most accurately describes the typical storm event (2 year storm). The expected stream velocity and associated abrasion conditions should be based on a typical flow and not a 10 or 50-year design flood.
5. Use Table 3 to determine whether the structural gage for the selected material is sufficient for the design service life. If the structural gage is greater than or equal to the gage required for a particular abrasion condition and service life, use the structural gage. Conversely, if the structural gage is less than the gage required for a particular abrasion condition and service life, use the gage required by Table 3.

Note:

Both Contech round pipe and pipe-arch are available with either helical or annular corrugations. Contech HEL-COR® pipe (helical corrugations) is furnished with continuous lock seams and annular re-rolled ends. Contech riveted pipe is furnished with annular corrugations only. The height of cover tables in this guide are helical corrugations only. Consult your Contech representative for Height of Cover tables on riveted pipe.

Table 1 — Recommended Environments

Material Type	Soil* and Water pH 3 4 5 6 7 8 9 10 11 12	Resistivity (ohm-cm) Minimum	Maximum
Galvanized Steel*		2000	8000
Aluminized Steel Type 2		1500	N/A
Polymer Coated		250	N/A
Aluminum Alloy		500	N/A

**Appropriate pH range for Galvanized Steel is 6.0 to 10*

Table 2 — FHWA Abrasion Guidelines

Abrasion Level	Abrasion Condition	Bed Load	Flow Velocity (fps)
1	Non- Abrasive	None	Minimal
2	Low Abrasion	Minor	< 5
3	Moderate Abrasion	Moderate	5 - 15
4	Severe Abrasion	Heavy	> 15

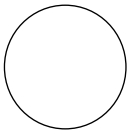
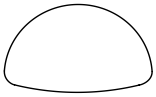
"Interim Direct Guidelines on Drainage Pipe Alternative Selection." FHWA, 2005.

Table 3 — Drainage Product Usage Guide[1]

Application	Culverts, Storm Drain, Cross Drain, Median Drain, Side Drain											
Roadway Classification	Rural	Minor	Major	Urban	Rural	Minor	Major	Urban	Rural	Minor	Major	Urban
Design Service Life	25	50	75	100	25	50	75	100	25	50	75	100
Abrasion Level	Abrasion Level 1 & 2				Abrasion Level 3				Abrasion Level 4			
CMP (1/2" & 1" deep corrugations, ULTRA FLO [3] & Smooth Cor [2,3])	Minimum gage required to meet design service life, assuming that structural design has been met.											
Galvanized (2 oz.)	*16*	*12*	*10*	*8[4]*	*14*	*10*	8	N/A	*14[5]*	*10[5]*	8[5]	N/A
Galvanized and Asphalt Coated	16	14	10	8	14	12	8	N/A	14[5]	12[5]	8[5]	N/A
Galv., Asphalt Coated and Paved Invert	16	16	14	10	16	14	12	8	14	12	10	N/A
Aluminized Type 2	16	16	16	14	14	14	14	12	14[6]	14[6]	14[6]	12[6]
Polymer Coated	16	16	16[8]	16[9]	16	16	16[8]	16[9]	14[7]	14[7]	14[7,8]	14[7,9]
Aluminum Alloy	16	16	16	16	14	14	14	14	14[5]	14[5]	14[5]	14[5]

1. *Based on Table 1 - Recommended Environments.*
2. *SmoothCor™ Steel Pipe combines a corrugated steel exterior shell with a hydraulically smooth interior liner.*
3. *Service life estimates for ULTRA FLO® and SmoothCor Pipe assume a storm sewer application. Storm sewers rarely achieve abrasion levels 3 or 4. For applications other than storm sewers or abrasion conditions above Abrasion Level 2, please contact your Contech Sales Representative for gage and coating recommendations.*
4. *Design service life for 8 gage galvanized is 97 years.*
5. *Invert protection to consist of velocity reduction structures.*
6. *Asphalt coated and paved invert or velocity reduction structures are needed.*
7. *Requires a field applied concrete paved invert with minimum thickness 1" above corrugation crests.*
8. *75 year service life for polymer coated is based on a pH range of 4-9 and resistivity greater than 750 ohm-cm.*
9. *100 year service life for polymer coated is based on a pH range of 5-9 and resistivity greater than 1500 ohm-cm.*

Table 4 - Product Dimensions

	Drainage Product	Common Uses	Size Limits* Minimum	Size Limits* Maximum	Manning's "n" Value
 Round Pipe	Corrugated Steel (1/2" deep corrugation)	Culverts, small bridges, storm water detention/ retention systems, conduits, tunnels, storm sewers.	12"	84"	0.011 - 0.021
	Corrugated Steel with Paved Invert (1/2" deep corrugation)		12"	84"	0.014 - 0.020
	Corrugated Steel (1" deep corrugation)		54"	144"	0.022 - 0.027
	Corrugated Steel with Paved Invert (1" deep corrugation)		54"	144"	0.019 - 0.023
	Corrugated Aluminum (1/2" deep corrugation)		12"	72"	0.011 - 0.021
	Corrugated Aluminum (1" deep corrugation)		30"	120"	0.023 - 0.027
	ULTRA FLO® Steel	Storm sewers, culverts, storm water detention/ retention systems.	18"	102"	0.012
	ULTRA FLO Aluminum		18"	84"	0.012
	SmoothCor™ Steel (1/2" deep corrugation)		18"	66"	0.012
	SmoothCor Steel (1" deep corrugation)		48"	126"	0.012
 Pipe-Arch	Corrugated Steel (1/2" deep corrugation)	Culverts, small bridges, storm water detention/ retention systems, conduits, tunnels, storm sewers.	17" x 13"	83" x 57"	0.011 - 0.021
	Corrugated Steel with Paved Invert (1/2" deep corrugation)		17" x 13"	83" x 57"	0.014 - 0.019
	Corrugated Steel (1" deep corrugation)		53" x 41"	142" x 91"	0.023 - 0.027
	Corrugated Steel with Paved Invert (1" deep corrugation)		53" x 41"	142" x 91"	0.019 - 0.022
	Corrugated Aluminum (1/2" deep corrugation)		17" x 13"	71" x 47"	0.011 - 0.021
	Corrugated Aluminum (1" deep corrugation)		60" x 46"	112" x 75"	0.023 - 0.027
	ULTRA FLO Steel	Storm sewers, culverts, storm water detention/ retention systems.	20" x 16"	66" x 51"	0.012
	ULTRA FLO Aluminum		20" x 16"	66" x 51"	0.012
	SmoothCor Steel (1/2" deep corrugation)		21" x 15"	77" x 52"	0.012
	SmoothCor Steel (1" deep corrugation)		53" x 41"	137" x 87"	0.012

* *For sizes outside of these limits, please contact your Contech representative.*

Table 5 — Corrugated Steel Pipe—Values of Coefficient of Roughness (n)

	All Diameters	1-1/2" x 1/4"		Helical* Corrugation Helical—2-2/3" x 1/2"						
2-2/3" x 1/2"	**Annular**	**8 in.**	**10 in.**	**12 in.**	**15 in.**	**18 in.**	**24 in.**	**36 in.**	**48 in.**	**60 in. +**
Unpaved	0.024	0.012	0.014	0.011	0.012	0.013	0.015	0.018	0.020	0.021
PAVED-INVERT	0.021						0.014	0.017	0.020	0.019
SmoothCor	N/A					0.012	0.012	0.012	0.012	0.012

		Helical*—3" x 1"							
3" x 1"	**Annular**	**36 in.**	**42 in.**	**48 in.**	**54 in.**	**60 in.**	**66 in.**	**72 in.**	**78 in. +**
Unpaved	0.027	0.022	0.022	0.023	0.023	0.024	0.025	0.026	0.027
PAVED-INVERT	0.023	0.019	0.019	0.020	0.020	0.021	0.022	0.022	0.023
SmoothCor	N/A			0.012	0.012	0.012	0.012	0.012	0.012

		Helical*—5" x 1"							
5" x 1"	**Annular**			**48 in.**	**54 in.**	**60 in.**	**66 in.**	**72 in.**	**78 in. +**
Unpaved	N/A			0.022	0.022	0.023	0.024	0.024	0.025
PAVED-INVERT	N/A			0.019	0.019	0.020	0.021	0.021	0.022
ULTRA FLO	N/A	**3/4" x 3/4" x 7-1/2"** All diameters n = 0.012							

* *Tests on helically corrugated pipe demonstrate a lower coefficient of roughness than for annularly corrugated steel pipe. Pipe-arches approximately have the same roughness characteristics as their equivalent round pipes.*

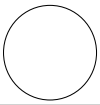
Table 6 - AASHTO Reference Specifications					
	Material Type	**Material**	**Pipe**	**Design***	**Installation***
Pipe & Pipe-Arch	**CMP (1/2" or 1" deep corrugations)**				
	Galvanized (2 oz.)	M218	M36	Section 12	Section 26
	Asphalt Coated	M190	M36	Section 12	Section 26
	Asphalt Coated and Paved Invert	M190	M36	Section 12	Section 26
	Aluminized Type 2	M274	M36	Section 12	Section 26
	Polymer Coated	M246	M36 & M245	Section 12	Section 26
	Aluminum Alloy	M197	M196	Section 12	Section 26
	ULTRA FLO (3/4" x 3/4" x 7-1/2" corrugation)				
	Galvanized (2 oz.)	M218	M36	Section 12	Section 26
	Aluminized Type 2	M274	M36	Section 12	Section 26
	Polymer Coated	M246	M36 & M245	Section 12	Section 26
	Aluminum Alloy	M197	M196	Section 12	Section 26
	SmoothCor				
	Polymer Coated	M246	M36 & M245	Section 12	Section 26

* *AASHTO LRFD Bridge Design Specification and AASHTO Standard Specification for Highway Bridges*

Corrugated Steel Pipe

Heights of Cover

2-2/3" x 1/2" Height of Cover Limits for Corrugated Steel Pipe



H 20 and H 25 Live Loads

Diameter or Span, Inches	Minimum Cover, Inches	Maximum Cover, Feet[2] Specified Thickness, Inches 0.052	0.064	0.079	0.109	0.138	0.168
6[10]	12	388	486				
8[10]		291	365				
10[10]		233	392				
12		197	248	310			
15		158	198	248			
18		131	165	206			
21		113	141	177	248		
24		98	124	155	217		
30			99	124	173		
36			83	103	145	186	
42			71	88	124	159	195
48			62	77	108	139	171
54				67	94	122	150
60					80	104	128
66					68	88	109
72						75	93
78							79
84	12						66

E 80 Live Loads

Diameter or Span, Inches	Minimum Cover, Inches	Maximum Cover, Feet[2] Specified Thickness, Inches 0.052	0.064	0.079	0.109	0.138	0.168
12	12	197	248	310			
15		158	198	248			
18		131	165	206			
21		113	141	177	248		
24		98	124	155	217		
30			99	124	173		
36			83	103	145	186	
42			71	88	124	159	195
48	12		62	77	108	139	171
54	18			67	94	122	150
60					80	104	128
66					68	88	109
72	18					75	93
78	24						79
84	24						66

H 20 and H 25 Live Loads, Pipe-Arch

Size Round Equivalent, Inches	Span x Rise, Inches	Minimum Structural Thickness, Inches	Minimum Cover, Inches	Maximum[7] Cover, Feet 2 Tons/Ft.² Corner Bearing Pressure
15	17 x 13	0.064	12	16
18	21 x 15	0.064		15
21	24 x 18	0.064		
24	28 x 20	0.064		
30	35x 24	0.064		
36	42 x 29	0.064		
42	49 x 33	0.064*		
48	57 x 38	0.064*		
54	64 x 43	0.079*		
60	71 x 47	0.109*		
66	77 x 52	0.109*		
72	83 x 57	0.138*	12	15

E 80 Live Loads, Pipe-Arch

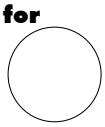
Size Round Equivalent, Inches	Span x Rise, Inches	Minimum Structural Thickness, Inches	Minimum Cover, Inches	Maximum[8] Cover, Feet 3 Tons/Ft.² Corner Bearing Pressure
15	17 x 13	0.079	24	22
18	21 x 15	0.079		
21	24 x 18	0.109		
24	28 x 20	0.109		
30	35 x 24	0.138		
36	42 x 29	0.138		
42	49 x 33	0.138*		
48	57 x 38	0.138*		
54	64 x 43	0.138*		
60	71 x 47	0.138*	24	22

* *These values are based on the AISI Flexibility Factor limit (0.0433 x 1.5) for pipe-arch.*

Heights of Cover Notes:

1. These tables are for lock-seam or welded-seam construction. They are not for riveted construction. Consult your Contech Sales Representative for Height of Cover tables on riveted pipe.
2. These values, where applicable, were calculated using a load factor of K=0.86 as adopted in the NCSPA CSP Design Manual, 2008.
3. The haunch areas of a pipe-arch are the most critical zone for backfilling. Extra care should be taken to provide good material and compaction to a point above the spring line.
4. E 80 minimum cover is measured from top of pipe to bottom of tie.
5. H 20 and H 25 minimum cover is measured from top of pipe to bottom of flexible pavement or top of rigid pavement.
6. The H 20 and H 25 pipe-arch tables are based on 2 tons per square foot corner bearing pressures.
7. The E 80 pipe-arch tables minimum and maximum covers are based on the corner bearing pressures shown. These values may increase or decrease with changes in allowable corner bearing pressures.
8. 0.052" is 18 gage.
   0.064" is 16 gage.
   0.079" is 14 gage.
   0.109" is 12 gage.
   0.138" is 10 gage.
   0.168" is 8 gage.
9. For construction loads, see Page 15.
10. 1-1/2" x 1/4" corrugation. H20, H25 and E80 loading.
11. SmoothCor has same Height of Cover properties as corrugated steel pipe. The exterior shell of SmoothCor is manufactured in either 2-2/3" x 1/2" or 3" x 1" corrugations; maximum exterior shell gage is 12.
12. Sewer gage (trench conditions) tables for corrugated steel pipe can be found in the AISI book "Modern Sewer Design," 4th Edition, 1999. These tables may reduce the minimum gage due to a higher flexibility factor allowed for a trench condition.

5" x 1" or 3" x 1" Height of Cover Limits for Corrugated Steel Pipe



H 20 and H 25 Live Loads

Diameter or Span, Inches	Minimum Cover Inches	Maximum Cover, Feet[2] Specified Thickness, Inches 0.064	0.079	0.109	0.138	0.168
54	12	56	70	98	127	155
60		50	63	88	114	139
66		46	57	80	103	127
72		42	52	74	95	116
78		39	48	68	87	107
84		36	45	63	81	99
90		33	42	59	76	93
96	12	31	39	55	71	87
102	18	29	37	52	67	82
108			35	49	63	77
114			32	45	58	72
120			30	42	54	66
126				39	50	61
132				36	46	58
138				33	43	53
144	18				39	49

Maximum cover heights shown are for 5" x 1".

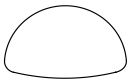
To obtain maximum cover for 3" x 1", increase these values by 12%

E 80 Live Loads

Diameter or Span, Inches	Minimum Cover Inches	Maximum Cover, Feet[2] Specified Thickness, Inches 0.064	0.079	0.109	0.138	0.168
54	18	56	70	98	127	155
60		50	63	88	114	139
66		46	57	80	103	127
72	18	42	52	74	95	116
78	24	39	48	68	87	107
84		36	45	63	81	99
90		33[1]	42	59	76	93
96	24	31[1]	39	55	71	87
102	30	29[1]	37	52	67	82
108			35	49	63	77
114			32[1]	45	58	72
120	30		30[1]	42	54	66
126	36			39	50	61
132				36	46	58
138				33[1]	43	53
144	36				39	49

Maximum cover heights shown are for 5" x 1".
To obtain maximum cover for 3" x 1", increase these values by 12%.
[1] These diameters in these gages require additional minimum cover.

5" x 1" Pipe-Arch Height of Cover Limits for Corrugated Steel Pipe



H 20 and H 25 Live Loads

Size: Equivalent Pipe Diameter	Size: Span x Rise Inches[3]	Minimum Specified Thickness, Inches*	Minimum Cover Inches	Maximum[7] Cover, Feet: 2 Tons/Ft.² Corner Bearing Pressure
72	81 x 59	0.109	18	21
78	87 x 63	0.109	18	20
84	95 x 67	0.109	18	20
90	103 x 71	0.109	18	20
96	112 x 75	0.109	21	20
102	117 x 79	0.109	21	19
108	128 x 83	0.109	24	19
114	137 x 87	0.109	24	19
120	142 x 91	0.138	24	19

Larger sizes are available in some areas of the United States. Check with your local Contech representative . Some minimum heights-of-cover for pipe-arches have been increased to take into account allowable "plus" tolerances on the manufactured rise.

E 80 Live Loads

Size: Equivalent Pipe Diameter	Size: Span x Rise Inches[3]	Minimum Specified Thickness, Inches*	Minimum Cover Inches	Maximum[8] Cover, Feet: 2 Tons/Ft.² Cover Bearing Pressure
72	81 x 59	0.109	30	21
78	87 x 63	0.109	30	18
84	95 x 67	0.109	30	18
90	103 x 71	0.109	36	18
96	112 x 75	0.109	36	18
102	117 x 79	0.109	36	17
108	128 x 83	0.109	42	17
114	137 x 87	0.109	42	17
120	142 x 91	0.138	42	17

* *Some 3" x 1" and 5" x 1" minimum gages shown for pipe-arch are due to manufacturing limitations.*

Heights of Cover Notes:

1. These tables are for lock-seam or welded-seam construction. They are not for riveted construction. Consult your Contech Sales Representative for Height of Cover tables on riveted pipe.
2. These values, where applicable, were calculated using a load factor of K=0.86 as adopted in the NCSPA CSP Design Manual, 2008.
3. The span and rise shown in these tables are nominal. Typically the actual rise that forms is greater than the specified nominal. This actual rise is within the tolerances as allowed by the AASHTO & ASTM specifications. The minimum covers shown are more conservative than required by the AASHTO and ASTM specifications to account for this anticipated increase in rise. Less cover height may be tolerated depending upon actual rise of supplied pipe arch.
4. The haunch areas of a pipe-arch are the most critical zone for backfilling. Extra care should be taken to provide good material and compaction to a point above the spring line.
5. E 80 minimum cover is measured from top of pipe to bottom of tie.
6. H 20 and H 25 minimum cover is measured from top of pipe to bottom of flexible pavement or top of rigid pavement.
7. The H 20 and H 25 pipe-arch tables are based on 2 tons per square foot corner bearing pressures.
8. The E 80 pipe-arch tables minimum and maximum covers are based on the corner bearing pressures shown. These values may increase or decrease with changes in allowable corner bearing pressures.
9. 0.052" is 18 gage.0.064" is 16 gage.
   0.079" is 14 gage.0.109" is 12 gage.
   0.138" is 10 gage.0.168" is 8 gage.
10. For construction loads, see Page 15.
11. SmoothCor has same Height of Cover properties as corrugated steel pipe. The exterior shell of SmoothCor is manufactured in either 2-$^{2}/_{3}$" x $^{1}/_{2}$" or 3"x1" corrugations; maximum exterior shell gage is 12.
12. Sewer gage (trench conditions) tables for corrugated steel pipe can be found in the AISI book "Modern Sewer Design," 4th Edition, 1999. These tables may reduce the minimum gage due to a higher flexibility factor allowed for a trench condition.

3" x 1" Pipe-Arch Height of Cover Limits for Corrugated Steel Pipe-Arch

H 20 and H 25 Live Loads

Size		Minimum		Maximum[7]
Equivalent Pipe Diameter	Span x Rise Inches	Specified Thickness, Inches*	Minimum Cover Inches	Cover, Feet 2 Tons/Ft.² Corner Bearing Pressure
48	53 x 41	0.079	12	25
54	60 x 46	0.079	15	25
60	66 x 51	0.079	15	25
66	73 x 55	0.079	18	24
72	81 x 59	0.079	18	21
78	87 x 63	0.079	18	20
84	95 x 67	0.079	18	20
90	103 x 71	0.079	18	20
96	112 x 75	0.079	21	20
102	117 x 79	0.109	21	19
108	128 x 83	0.109	24	19
114	137 x 87	0.109	24	19
120	142 x 91	0.138	24	19

Larger sizes are available in some areas of the United States. Check with your local Contech Sales Representative.

Some minimum heights-of-cover for pipe-arches have been increased to take into account allowable "plus" tolerances on the manufactured rise.

E 80 Live Loads

Size		Minimum		Maximum[8]
Equivalent Pipe Diameter	Span x Rise Inches	Specified Thickness, Inches*	Minimum Cover Inches	Cover, Feet 2 Tons/Ft.² Corner Bearing Pressure
48	53 x 41	0.079	24	25
54	60 x 46	0.079	24	25
60	66 x 51	0.079	24	25
66	73 x 55	0.079	30	24
72	81 x 59	0.079	30	21
78	87 x 63	0.079	30	18
84	95 x 67	0.079	30	18
90	103 x 71	0.079	36	18
96	112 x 75	0.079	36	18
102	117 x 79	0.109	36	17
108	128 x 83	0.109	42	17
114	137 x 87	0.109	42	17
120	142 x 91	0.138	42	17

* *Some 3" x 1" and 5" x 1" minimum gages shown for pipe-arch are due to manufacturing limitations.*

Heights of Cover Notes:

1. These tables are for lock-seam or welded-seam construction. They are not for riveted construction. Consult your Contech Sales Representative for Height of Cover tables on riveted pipe.
2. These values, where applicable, were calculated using K=0.86 as adopted in the NCSPA CSP Design Manual, 2008.
3. The span and rise shown in these tables are nominal. Typically the actual rise that forms is greater than the specified nominal. This actual rise is within the tolerances as allowed by the AASHTO & ASTM specifications. The minimum covers shown are more conservative than required by the AASHTO and ASTM specifications to account for this anticipated increase in rise. Less cover height may be tolerated depending upon actual rise of supplied pipe arch.
4. The haunch areas of a pipe-arch are the most critical zone for backfilling. Extra care should be taken to provide good material and compaction to a point above the spring line.
5. E 80 minimum cover is measured from top of pipe to bottom of tie.
6. H 20 and H 25 minimum cover is measured from top of pipe to bottom of flexible pavement or top of rigid pavement.
7. The H 20 and H 25 pipe-arch tables are based on 2 tons per square foot corner bearing pressures.
8. The E 80 pipe-arch tables minimum and maximum covers are based on the corner bearing pressures shown. These values may increase or decrease with changes in allowable corner bearing pressures.
9. 0.052" is 18 gage.
   0.064" is 16 gage.
   0.079" is 14 gage.
   0.109" is 12 gage.
   0.138" is 10 gage.
   0.168" is 8 gage.
10. For construction loads, see Page 15.
11. SmoothCor has same Height of Cover properties as corrugated steel pipe. The exterior shell of SmoothCor is manufactured in either 2-$^{2}/_{3}$" x $^{1}/_{2}$" or 3" x 1" corrugations; maximum exterior shell gage is 15.
12. Sewer gage (trench conditions) tables for corrugated steel pipe can be found in the AISI book "Modern Sewer Design," 4th Edition, 1999. These tables may reduce the minimum gage due to a higher flexibility factor allowed for a trench condition.

Approximate Weight (Pounds/Foot) Contech Corrugated Steel Pipe

(Estimated Average Weights—Not for Specification Use)

1-1/2″ x 1/4″ Corrugation			
Inside Diameter, in.	**Specified Thickness, in.**	**Galvanized & ALUMINIZED**	**Full Coated**
6	0.052	4	5
	0.064	5	6
8	0.052	5	6
	0.064	6	7
10	0.052	6	7
	0.064	7	8

Steel Thicknesses by Gage						
Gage	18	16	14	12	10	8
Thickness	.052	.064	.079	.109	.138	.168

2-2/3″ x 1/2″ Corrugation					
Inside Diameter, in.	Specified Thickness	Galvanized & ALUMINIZED	Full Coated	Coated & PAVED-INVERT	SmoothCor
12	0.052	8	10	13	
	0.064	10	12	15	
	0.079	12	14	17	
15	0.052	10	13	16	
	0.064	12	15	18	
	0.079	15	18	21	
18	0.052	12	16	19	
	0.064	15	19	22	25
	0.079	18	22	25	28
21	0.052	14	18	23	
	0.064	17	21	26	29
	0.079	21	25	30	33
	0.109	29	33	33	41
24	0.052	15	20	26	
	0.064	19	24	30	30
	0.079	24	29	35	38
	0.109	33	38	44	47
30	0.064	24	30	36	42
	0.079	30	36	42	48
	0.109	41	47	53	59
36	0.064	29	36	44	51
	0.079	36	43	51	58
	0.109	49	56	64	71
	0.138	62	69	77	
42	0.064	34	42	51	60
	0.079	42	50	59	68
	0.109	57	65	74	82
	0.138	72	80	89	
	0.168	88	96	105	
48	0.064	38	48	57	67
	0.079	48	58	67	77
	0.109	65	75	84	94
	0.138	82	92	101	
	0.168	100	110	119	
54	0.079	54	65	76	87
	0.109	73	84	95	106
	0.138	92	103	114	
	0.168	112	123	134	
60	0.109	81	92	106	117
	0.138	103	114	128	
	0.168	124	135	149	
66	0.109	89	101	117	129
	0.138	113	125	141	
	0.168	137	149	165	
72	0.138	123	137	154	(2)
	0.168	149	163	180	
78	0.168	161	177	194	(2)
84	0.168	173	190	208	(2)

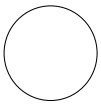
3″ x 1″ or 5″ x 1″ Corrugation					
Inside Diameter, in.	Specified Thickness	Galvanized & ALUMINIZED	Full Coated	Coated & PAVED-INVERT	SmoothCor
54	0.064	50	66	84	84
	0.079	61	77	95	95
	0.109	83	100	118	118
	0.138	106	123	140	
	0.168	129	146	163	
60	0.064	55	73	93	93
	0.079	67	86	105	105
	0.109	92	110	130	130
	0.138	118	136	156	
	0.168	143	161	181	
66	0.064	60	80	102	102
	0.079	74	94	116	116
	0.109	101	121	143	145
	0.138	129	149	171	
	0.168	157	177	199	
72	0.064	66	88	111	112
	0.079	81	102	126	127
	0.109	110	132	156	157
	0.138	140	162	186	
	0.168	171	193	217	
78	0.064	71	95	121	120
	0.079	87	111	137	136
	0.109	119	143	169	168
	0.138	152	176	202	
	0.168	185	209	235	
84	0.064	77	102	130	130
	0.079	94	119	147	147
	0.109	128	154	182	181
	0.138	164	189	217	
	0.168	199	224	253	
90	0.064	82	109	140	139
	0.079	100	127	158	157
	0.109	137	164	195	194
	0.138	175	202	233	
	0.168	213	240	271	
96	0.064	87	116	149	148
	0.079	107	136	169	168
	0.109	147	176	209	208
	0.138	188	217	250	
	0.168	228	257	290	
102	0.064	93	124	158	158
	0.079	114	145	179	179
	0.109	155	186	220	222
	0.138	198	229	263	
	0.168	241	272	306	
108	0.079	120	153	188	189
	0.109	165	198	233	235
	0.138	211	244	279	
	0.168	256	289	324	
114	0.079	127	162	199	200
	0.109	174	209	246	248
	0.138	222	257	294	
	0.168	271	306	343	
120	0.079	134	171	210	211
	0.109	183	220	259	260
	0.138	234	271	310	
	0.168	284	321	360	
126	0.109	195	233	274	276
	0.138	247	285	326	
	0.168	299	338	378	
132	0.109	204	244	287	289
	0.138	259	299	342	
	0.168	314	354	397	
138	0.109	213	255	300	300
	0.138	270	312	357	
	0.168	328	370	415	
144	0.138	282	326	373	
	0.168	344	388	435	(2)

1. *Weights for polymer coated pipe are 1% to 4% higher, varying by gage.*
2. *Please contact your Contech Sales Representative.*
3. *Weights listed in the 3″ x 1″ or 5″ x 1″ table are for 3″ x 1″ pipe. Weights for 5″ x 1″ are approximately 12% less than those used in this table, for metallic coated pipe.*

Corrugated Aluminum Pipe

Heights of Cover

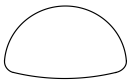
2-2/3" X 1/2" Height of Cover Limits for Corrugated Aluminum Pipe



HL 93 Live Load

Diameter or Span (In.)	Minimum Cover (In.)	Maximum Cover, (Ft.)[2] Equiv. Standard Gage 18	16	14	12	10	8[5]
6 [4]	12	197	247				
8 [4]		147	185				
10 [4]		119	148				
12			125	157			
15			100	125			
18			83	104			
21			71	89			
24			62	78	109		
27				69	97		
30				62	87		
36				51	73	94	
42					62	80	
48	12				54	70	85
54	15				48	62	76
60	15					52	64
66	18						52
72	18						43

2 2/3" x 1/2" Height of Cover Limits for Corrugated Aluminum Pipe-Arch



HL 93 Live Load

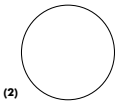
Round Pipe Dia. (Inches)	Size, (In.) Span x Rise	Minimum Gage	Minimum[3] Cover (Inches)	Maximum Cover, (Ft.) Aluminum Pipe-Arch[2] 2 Tons/Ft.² for Corner Bearing Pressures
15	17x13	16	12	13
18	21x15	16	12	12
21	24x18	16	12	12
24	28x20	14	12	12
30	35x24	14	12	12
36	42x29	12	12	12
42	49x33	12	15	12
48	57x38	10	15	12
54	64x43	10	18	12
60	71x47	8[5]	18	12

Notes:

1. *Height-of-cover is measured to top of rigid pavement or to bottom of flexible pavement.*
2. *Maximum cover meets AASHTO LRFD design criteria.*
3. *Minimum cover meets AASHTO and ASTM B 790 design criteria.*
4. *1 1/2" x 1/4" corrugation.*
5. *8-gage pipe has limited availability.*
6. *For construction loads, see page 15.*

Heights of Cover

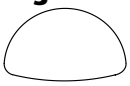
3" x 1" Height of Cover Limits for Corrugated Aluminum Pipe



HL 93 Live Load

Diameter or Span (In.)	Minimum[3] Cover (In.)	Maximum Cover, (Ft.) [2] Equiv. Standard Gage 16	14	12	10	8[6]
30	12	57	72	101	135	159
36		47	60	84	112	132
42		40	51	72	96	113
48	12	35	44	62	84	99
54	15	31	39	55	74	88
60	15	28	35	50	67	79
66	18	25	32	45	61	72
72	18	23	29	41	56	66
78	21		27	38	51	61
84	21			35	48	56
90	24			33	44	52
96	24			31	41	49
102	24				39	46
108	24				37	43
114	24					39
120	24					36

3" x 1" Height of Cover Limits for Corrugated Aluminum Pipe-Arch



HL 93 Live Load

Round Pipe Dia. (Inches)	Size, (In.) Span x Rise	Minimum Gage	Minimum[3] Cover (Inches)	Maximum Cover, (Ft.) Aluminum Pipe-Arch[2] 2 Tons/Ft.² for Corner Bearing Pressures
54	60x46	14	15	20
60	66x51	14	18	20
66	73x55	14	21	20
72	81x59	12	21	16
78[4]	87x63	12	24	16
84[4]	95x67	12	24	16
90[4]	103x71	10	24	16
96[4]	112x75	8[5]	24	16

Notes:

1. *Height-of-cover is measured to top of rigid pavement or to bottom of flexible pavement.*
2. *Maximum cover meets AASHTO LRFD design criteria.*
3. *Minimum cover meets ASTM B 790 design criteria.*
4. *Limited availability on these sizes.*
5. *8-gage pipe has limited availability.*
6. *For construction loads, see page 15.*

Approximate Weight/Foot
Contech Corrugated Aluminum Pipe

(Estimated Average Weights—Not for Specification Use)

2 2/3″ x 1/2″ Corrugation Aluminum Pipe

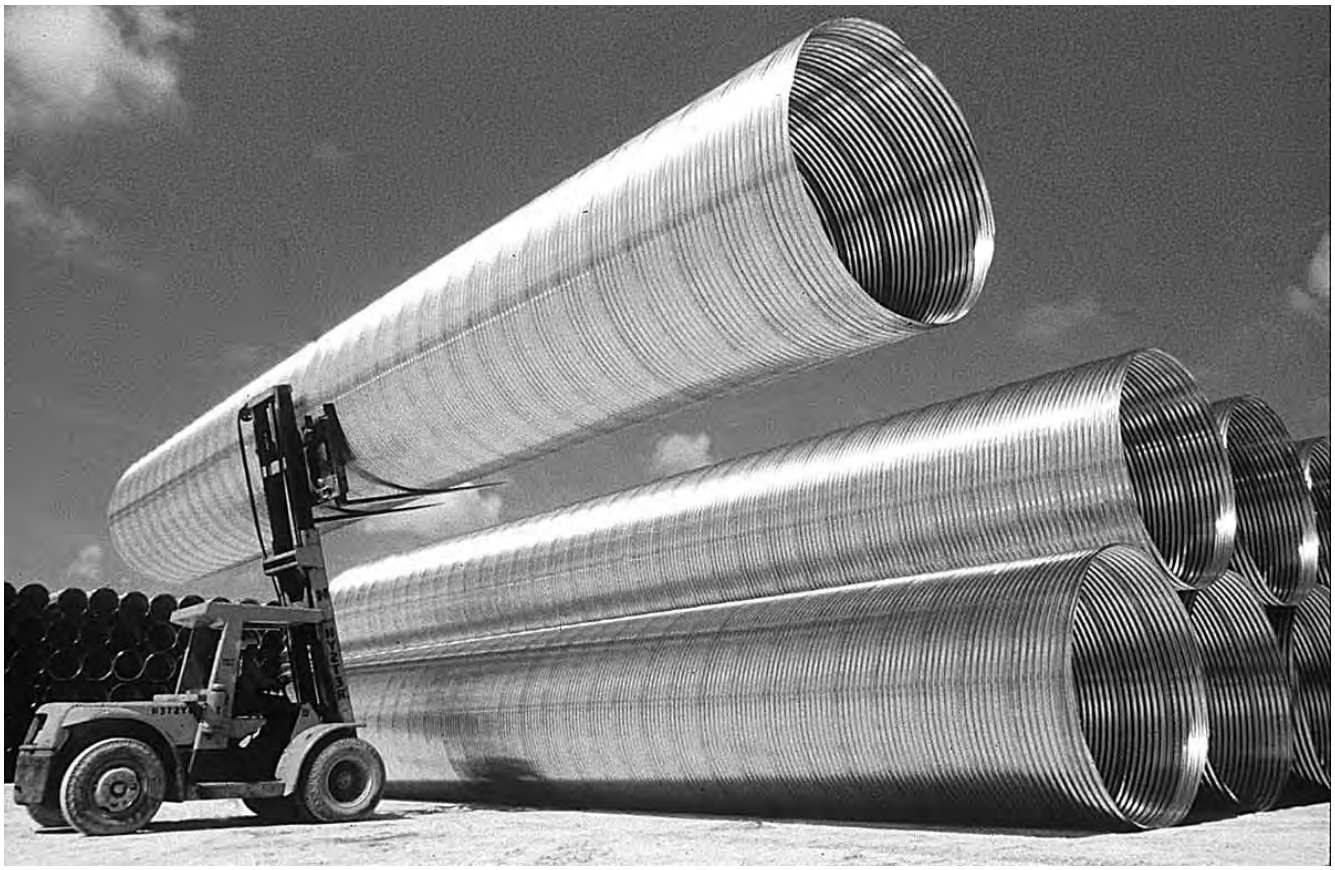
Diameter or Span (Inches)	Weight (Lb./Lineal Ft.) Equiv. Standard Gage					
	(.048) 18	(.060) 16	(.075) 14	(.105) 12	(.135) 10	(.164) 8[3]
6 [2]	1.3	1.6				
8 [2]	1.7	2.1				
10 [2]	2.1	2.6				
12		3.2	4.0			
15		4.0	4.9			
18		4.8	5.9			
21		5.6	6.9			
24		6.3	7.9	10.8		
27			8.8	12.2		
30			9.8	13.5		
36			11.8	16.3	20.7	
42				19.0	24.2	
48				21.7	27.6	33.5
54				24.4	31.1	37.7
60					34.6	41.9
66						46.0
72						50.1

3″ x 1″ Corrugation Aluminum Pipe

Diameter or Span (Inches)	Weight (Lb./Lineal Ft.) Equiv. Standard Gage				
	(.060) 16	(.075) 14	(.105) 12	(.135) 10	(.164) 8[3]
30	9.3	11.5	15.8	20.2	
36	11.1	13.7	18.9	24.1	
42	12.9	16.0	22.0	28.0	
48	14.7	18.2	25.1	32.0	38.8
54	16.5	20.5	28.2	35.9	43.6
60	18.3	22.7	31.3	40.0	48.3
66	20.2	24.9	34.3	43.7	53.0
72	22.0	27.1	37.4	47.6	57.8
78		29.3	40.4	51.5	62.5
84			43.5	55.4	67.2
90			46.6	59.3	71.9
96			49.6	63.2	76.7
102				66.6	80.8
108				71.0	86.1
114					90.9
120					95.6

Notes:

1. *Helical lockseam pipe only. Annular riveted pipe weights will be higher.*
2. *1 ½″ x ¼″ Corrugation.*
3. *8-gage pipe has limited availability.*



ULTRA FLO®

Heights of Cover

Galvanized, ALUMINIZED STEEL Type 2 or Polymer Coated Steel** ULTRA FLO H 20 and H 25 Live Load

Diameter (Inches)	Minimum/Maximum Cover (Feet) Specified Thickness and Gage (0.064) 16	(0.079) 14	(0.109) 12	(0.138) 10
18	1.0/108	1.0/151		
21	1.0/93	1.0/130	1.0/216	
24	1.0/81	1.0/113	1.0/189	
30	1.0/65	1.0/91	1.0/151	
36	1.0/54	1.0/75	1.0/126	
42	1.0/46	1.0/65	1.0/108	
48	1.0/40	1.0/56	1.0/94	1.0/137
54	1.25/36	1.25/50	1.0/84	1.0/122
60	1.25*/32*	1.25/45	1.0/75	1.0/109
66		1.5/41	1.25/68	1.25/99
72		1.5*/37*	1.25/63	1.25/91
78		1.75*/34*	1.5/58	1.5/84
84			1.75/54	1.75/78
90			2.0*/50*	2.0/73
96			2.0*/47*	2.0/68
102			2.5*/43*	2.5/61
108				2.5*/54*
114				2.5*/49*
120				2.5*/43*

Galvanized, ALUMINIZED STEEL Type 2 or **Polymer Coated** Steel** ULTRA FLO E 80 Live Load

Diameter (Inches)	(0.064) 16	(0.079) 14	(0.109) 12	(0.138) 10
18	1.0 / 93	1.0 / 130		
21	1.0 / 79	1.0 / 111	1.0 / 186	
24	1.0 / 69	1.0 / 97	1.0 / 162	
30	1.0 / 55	1.0 / 78	1.0 / 130	
36	1.5 / 46	1.25 / 65	1.0 / 108	
42	1.5 / 39	1.5 / 55	1.25 / 93	
48	2.0 / 34	1.75 / 48	1.5 / 81	1.5 / 118
54	3.0* / 28*	2.0 / 43	1.5 / 72	1.5 / 104
60		2.0 / 39	1.75 / 65	1.75 / 94
66		2.5* / 35*	2.0 / 58	2.0 / 85
72			2.0 / 49	2.0 / 78
78			2.5 / 42	2.5 / 72
84			2.75* / 35*	2.5 / 67
90				2.5 / 62
96				2.5* / 58*
102				3.0* / 52*

Notes:

1. The tables for Steel H 20 and H 25 loading are based on the NCSPA CSP Design Manual, 2008 and were calculated using a load factor of K=0.86. The tables for Steel E 80 loading are based on the AREMA Manual. The tables for Aluminum HL 93 loading are based on AAS-HTO LRFD Design Criteria.
2. The haunch areas of a pipe-arch are the most critical zone for backfilling. Extra care should be taken to provide good material and compaction to a point above the spring line.
3. E 80 minimum cover is measured from top of pipe to bottom of tie.
4. H 20, H 25 and HL 93 minimum cover is measured from top of pipe to bottom of flexible pavement or top of rigid pavement.
5. The H 20, H 25 and HL 93 pipe-arch tables are based on 2 tons per square foot corner bearing pressures.
6. The E 80 pipe-arch tables minimum and maximum covers are based on 3 tons per square foot corner bearing pressures shown.
7. Larger size pipe-arches may be available on special order.
8. M.L. (Heavier gage is required to prevent crimping at the haunches.)
9. For construction loads, see Page 15.
10. Sewer gage (trench conditions) tables for corrugated steel pipe can be found in the AISI book "Modern Sewer Design," 4th Edition, 1999. These tables may reduce the minimum gage due to a higher flexibility factor allowed for a trench condition.

Galvanized, ALUMINIZED STEEL Type 2 or **Polymer Coated** Steel** ULTRA FLO Pipe-Arch H 20 and H 25 Live Load

Equiv. Pipe Dia. (Inches)	Span (Inches)	Rise (Inches)	Minimum/Maximum Cover (Feet) Specified Thickness and Gage (0.064) 16	(0.079) 14	(0.109) 12
18	20	16	1.0/16		
21	23	19	1.0/15		
24	27	21	1.0/13		
30	33	26	1.0/13	1.0/13	
36	40	31	1.0/13	1.0/13	
42	46	36	M.L.[8]	M.L.[8]	1.0/13
48	53	41	M.L.[8]	M.L.[8]	1.25/13
54	60	46	M.L.[8]	M.L.[8]	1.25/13
60	66	51	M.L.[8]	M.L.[8]	1.25/13

Galvanized, ALUMINIZED STEEL Type 2 or **Polymer Coated** Steel** ULTRA FLO Pipe-Arch E 80 Live Load

Span x Rise (Inches)	Round Equivalent	Minimum Cover (Inches)	Minimum Gage	Max Cover (Feet)
20x16	18	24	16	22
23x19	21	24	16	21
27x21	24	24	16	18
33x26	30	24	16	18
40x31	36	24	16	17
46x36	42	24	12	18
53x41	48	24	12	18
60x46	54	24	12	18
66x51	60	24	12	18

ULTRA FLO can be manufactured from polymer coated steel for added durability.

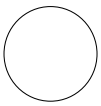
11. All heights of cover are based on trench conditions. If embankment conditions exist, there may be restriction on gages for the large diameters. Your Contech Sales Representative can provide further guidance for a project in embankment conditions.
12. All steel ULTRA FLO is installed in accordance with ASTM A798 "Installing Factory-Made Corrugated Steel Pipe for Sewers and Other Applications."

* *These sizes and gage combinations are installed in accordance with ASTM A796 paragraphs 18.2.3 and ASTM A798. For aluminum ULTRA FLO refer to ASTM B790 and B788.*

** *Contact your local Contech representative for more specific information on Polymer Coated ULTRA FLO for gages 12 and 10.*

Heights of Cover

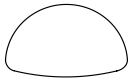
Aluminum ULTRA FLO HL 93 Live Load



Diameter (Inches)	Minimum/Maximum Cover (Feet) Specified Thickness and Gage (0.060) 16	(0.075) 14	(0.105) 12	(0.135) 10
18	1.0/43	1.0/61		
21	1.0/38	1.0/52	1.0/84	
24	1.0/33	1.0/45	1.0/73	
30	1.0/26	1.25/36	1.25/58	
36	1.5*/21*	1.50/30	1.5/49	1.5/69
42		1.75*/25*	1.75/41	1.75/59
48			2.0/36	2.0/51
54			2.0/32	2.0/46
60			2.0*/29*	2.0/41
66				2.0/37
72				2.5*/34*

See previous page for height of cover notes.

Aluminum ULTRA FLO Pipe-Arch HL 93 Live Load



Equiv. Pipe Dia. (Inches)	Span (Inches)	Rise (Inches)	Minimum/Maximum Cover (Feet) Specified Thickness and Gage (0.060) 16	(0.075) 14	(0.105) 12	(0.135) 10
18	20	16	1.0/16			
21	23	19	1.0/15			
24	27	21	1.25/13	1.25/13		
30	33	26	1.5/13	1.5/13	1.5/13	
36	40	31		1.75/13	1.75/13	
42	46	36			2.0/13	2.0/13
48	53	41			2.0/13	2.0/13
54	60	46			2.0*/13*	2.0/13
60	66	51				2.0/13

Approximate Weight/Foot Contech ULTRA FLO Pipe

Handling Weight for **ALUMINIZED STEEL Type 2** or **Galvanized Steel** ULTRA FLO

Diameter (Inches)	Weight (Pounds/Lineal Foot) Specified Thickness and Gage (0.064) 16	(0.079) 14	(0.109) 12	(0.138) 10
18	15	18		
21	17	21	29	
24	19	24	36	
30	24	30	42	
36	29	36	50	
42	33	42	58	
48	38	48	66	80
54	45	54	75	90
60	48	60	83	99
66		66	91	109
72		72	99	119
78		78	108	129
84			116	139
90			124	149
96			132	158
102			141	168
108				175
114				196
120				206

Weights for polymer coated pipe are 1% to 4% higher, varying by gage.

Handling Weight for **ALUMINUM** ULTRA FLO

Diameter (Inches)	Weight (Pounds/Lineal Foot) Specified Thickness and Gage (0.060) 16	(0.075) 14	(0.105) 12	(0.135) 10
18	5	6		
21	6	8	11	
24	7	9	13	
30	9	11	15	
36	11	13	18	23
42	12	15	21	26
48		17	24	30
54		19	27	34
60			30	37
66			33	41
72			36	45
78				49
84				52

ULTRA FLO is available in long lengths. And, its light weight allows it to be unloaded and handled with small equipment.

Reduced excavation because of ULTRA FLO's smaller outside diameter.

Installation Corrugated Metal Pipe

Overview
Satisfactory site preparation, trench excavation, bedding and backfill operations are essential to develop the strength of any flexible conduit. In order to obtain proper strength while preventing settlement, it is necessary that the soil envelope around the pipe be of good granular material, properly placed and carefully compacted.

Bedding
Bedding preparation is critical to both pipe performance and service life. The bed should be constructed to uniform line and grade to avoid distortions that may create undesirable stresses in the pipe and/or rapid deterioration of the roadway. The bed should be free of rock formations, protruding stones, frozen lumps, roots and other foreign matter that may cause unequal settlement.

Placing the pipe
Corrugated metal pipe weighs much less than other commonly used drainage structures. This is due to the efficient strength of the metal, further improved with carefully designed and formed corrugations. Even the heaviest sections of Contech pipe can be handled with relatively light equipment compared with equipment required for much heavier reinforced concrete pipe.

Backfill
Satisfactory backfill material, proper placement and compaction are key factors in obtaining maximum strength and stability. Backfill should be a well-graded granular material and should be free of large stones, frozen lumps and other debris.

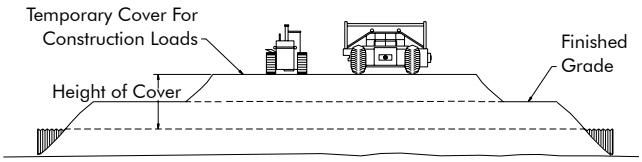
Backfill materials should be placed in layers about six inches deep, deposited alternately on opposite sides of the pipe. Each layer should be compacted carefully. Select backfill is placed and compacted until minimum cover height is reached, at which point, standard road embankment backfill procedures are used.

Installation References
For more information, see AASHTO Bridge Construction Specification Section 26, the Installation Manual of the National Corrugated Steel Pipe Association, ASTM A798 for steel and ASTM B788 for aluminum ULTRA FLO.

Additional Considerations for ULTRA FLO Installations
Bedding and Backfill
Typical ULTRA FLO installation requirements are the same as for any other corrugated metal pipe installed in a trench. Bedding and backfill materials for ULTRA FLO follow the requirements of the CMP installation specifications mentioned above, and must be free from stones, frozen lumps or other debris. When ASTM A796 (steel) or B790 (aluminum) designs are to be followed for condition III requirements, indicated by asterisk (*) in the tables on page 13 and 14, use clean, easily compacted granular backfill materials.

Embankment Conditions
ULTRA FLO is a superior CMP storm sewer product that is normally installed in a trench condition. In those unusual embankment installation conditions, pipe sizes and gages may be restricted. Your Contech Sales Representative can provide you with further guidance.

Construction Loads
For temporary construction vehicle loads, an extra amount of compacted cover may be required over the top of the pipe. The Height of Cover shall meet minimum requirements shown in the table below. The use of heavy construction equipment necessitates greater protection for the pipe than finished grade cover minimums for normal highway traffic.



Min. Height of Cover Requirements for Construction Loads On Corrugated Steel Pipe*

Diameter/ Span, (Inches)	Minimum Cover (feet) for Indicated Axle Loads (kips)			
	18-50	50-75	75-110	110-150
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

Min. Height of Cover Requirements for Construction Loads On Corrugated Aluminum Pipe*

Diameter/ Span (Inches)	Axle Load (Kips)			
	18-50	50-75	75-110	110-150
12-42	3.0′	3.5′	4.0′	4.0′
48-72	4.0′	4.0′	5.0′	5.5′
78-120	4.0′	5.0′	5.5′	5.5′

Min. Height of Cover Requirements for Construction Loads On ULTRA FLO Pipe*

Diameter/ Span (Inches)	Axle Load (Kips)			
	18-50	50-75	75-110	110-150
	Steel 3/4″ x 3/4″ x 7-1/2″			
15-42	2.0'	2.5'	3.0'	3.0'
48-72	3.0'	3.0'	3.5'	4.0'
78-108	3.0'	3.5'	4.0'	4.5'
	Aluminum 3/4″ x 3/4″ x 7-1/2″			
15-42	3.0'	3.5'	4.0'	4.0'

* Minimum cover may vary depending on local conditions. The contractor must provide the additional cover required to avoid damage to the pipe. Minimum cover is measured from the top of the pipe to the top of the maintained construction roadway surface.

SmoothCor™ Pipe

Excellent Hydraulics, Long Lengths and Easy Installation

Corrugated Steel Shell

SmoothCor pipe has a smooth interior steel liner that provides a Manning's "n" of 0.012. Its rugged, corrugated steel shell supplies the structural strength to outperform rigid pipe. SmoothCor pipe is both the economical and performance alternate to concrete.

Superior hydraulics

SmoothCor, with its smooth interior surface, is hydraulically superior to conventional corrugated steel pipe and with fewer joints and better interior surface, outperforms reinforced concrete pipe.

SmoothCor, with its long lengths, light weight and beam strength, is superior to concrete pipe in many difficult situations such as poor soils, poor subsurface drainage conditions, steep slopes and high fills. SmoothCor should be specified as an alternate under normal site conditions, and specified exclusively under very difficult situations that demand the strength of CSP with positive joints and a hydraulically efficient smooth liner.

Two Pipe Shapes

In addition to full-round pipe, SmoothCor comes in a pipe-arch shape for limited headroom conditions. The low, wide pipe-arch design distributes the flow area horizontally, enabling it to be installed with lower head room than a round pipe.

Reference specifications

Material	Polymer Coated	ASTM A 929 AASHTO M246 ASTM A 742
Pipe	Polymer	AASHTO M245 ASTM A 762 & A 760
Design	Steel Pipe	AASHTO Section 12 ASTM A 796
Installation	Steel Pipe	AASHTO Section 26 ASTM A 798

Structural Design

SmoothCor is lined with either 18 or 20 gage steel. Contech has taken a conservative approach to the Height of Cover. The maximum heights-of-cover are based on the shell thickness with no additional structural allowance for the liner as provided for in the AASHTO and ASTM design specifications. Using this approach, the Height of Cover tables for 2 2/3" x 1/2" and 3"x1" steel corrugations can be used for SmoothCor.

Diameters

SmoothCor is available in diameters ranging from 18 inches to 66 inches in 2 2/3" x 1/2" corrugation. The 3" x 1" corrugation is available in diameters of 48 inches to 126 inches.

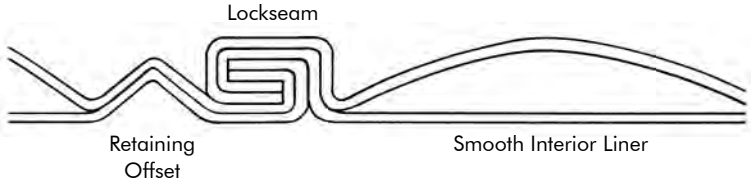
Pipe-arch sizes range from 21" x 15" through 77" x 52" for 2 2/3" x 1/2" corrugations, and 53" x 41" through 137" x 87" for 3"x1" corrugations.

Materials

SmoothCor is available with Dow's TRENCHCOAT® that allows the engineer to design for long service life. TRENCHCOAT is a tough, heavy-gage polymer film laminated to both sides of the steel coil, providing a barrier to corrosion and mild abrasion. TRENCHCOAT is particularly effective for protection in corrosive soils.

Fittings

SmoothCor can be fabricated into any type of structure including tees, elbows, laterals, catch basins, manifolds and reducers. Pre-fabricated fittings are more economical and have superior hydraulic characteristics when compared to concrete structures.



QUICK STAB® Joint

Save Time and Money With Faster Pipe Bell and Spigot Coupling

The Contech QUICK STAB Bell and Spigot joint speeds installation of corrugated metal pipe (CMP), reducing your costs. With the QUICK STAB coupling system, installation of CMP storm sewers and culverts has never been easier or faster.

The QUICK STAB joint creates a bell and spigot joining system with the bell only 1-1/2" larger than the pipe's O.D. Assembled at the factory, the QUICK STAB bell is shipped to the job site ready for installation. The only field operation is placing a special fluted gasket onto the spigot end of the pipe, applying lubricant and pushing it into the bell end of the preceding pipe. Without bands, bolts and wrenches to work and worry with, you can join pipe segments 50% to 90% faster—saving time, money and aggravation.

Soil Tight Joint

Contech's QUICK STAB joint provides the same soil tightness as conventional CMP bands. Each QUICK STAB joint uses a double sealing fluted gasket to seal the spigot against the bell. A flat gasket is installed at the plant between the pipe and the corrugated end of the bell. With the deep bell, you gain maximum soil tightness with minimal installation effort.

Wide Variety of Coatings and Materials

- Plain galvanized
- Aluminized Steel Type 2
- Aluminum
- Polymeric coated

Four Times Faster Installation Than Concrete

The QUICK STAB's bell and spigot joining system allows pipe segments to be joined quicker than reinforced concrete pipe. Next, add in Contech's corrugated metal pipe's length advantage—each segment is four times longer than standard concrete pipe lengths. That means fewer joints and faster installation—up to four times faster! Plus, with the bell only 1-1/2" larger than the pipe, trench excavation is considerably less compared with concrete—again, saving time and money.

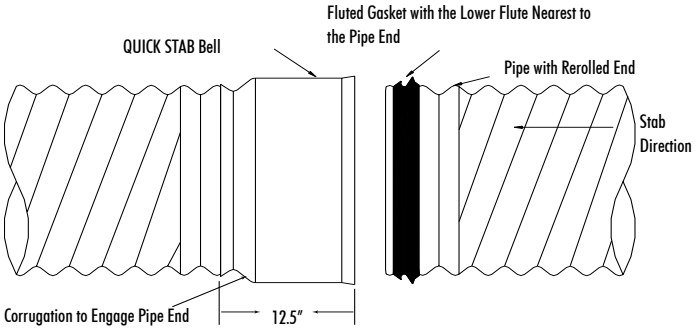
Field Installation Instructions

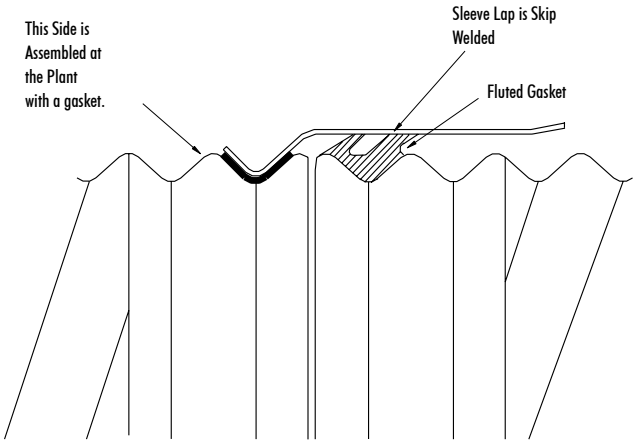
The spigot and bell ends must be cleaned of any dirt or debris prior to assembly. The fluted gasket shall be placed in the first corrugation with the lower flute nearest the end of the pipe. The bell & gasket shall be thoroughly lubed just before stabbing in the bell. Do not place hands, fingers, or any other body parts between bell and spigot during assembly. If it is necessary to pull the joint apart, the bell, spigot and gasket shall be inspected and cleaned of any dirt or debris prior to re-stabbing.

Corrugated Metal Pipe Bell and Spigot Joint Specification

The joints shall be of such design and the ends of the corrugated metal pipe sections so formed that the pipe can be laid together to make a continuous line of pipe. The joint shall be made from the same material as the pipe and shall prevent infiltration of the fill material.

Bell and Spigot Coupling System for CMP





The Bell and Spigot joint is available on ULTRA FLO and 2-2/3" x 1/2" corrugation in 15" through 60" diameter.

End Sections

Easily installed, easily maintained culvert end treatments for corrugated metal pipe, reinforced concrete pipe and HDPE Pipe

Contech End Sections provide a practical, economical and hydraulically superior method of finishing a variety of culvert materials.

The lightweight, flexible metal construction of Contech End Sections creates an attractive, durable and erosion-preventing treatment for all sizes of culvert inlets and outlets. They can be used with corrugated metal pipe having either annular or helical corrugations, and both reinforced concrete and plastic pipes. End sections can be salvaged when lengthening or relocating the culvert.

Standard End Sections are fabricated from pregalvanized steel. For added corrosion resistance, Aluminized Type II or Aluminum End Sections are available in smaller sizes. Special End Sections for multiple pipe installations may be available on a specific inquiry basis.

Better hydraulics

Flow characteristics are greatly improved by the exacting design of Contech End Sections. Scour and sedimentation conditions are improved, and headwater depth can be better controlled. Culverts aligned with the stream flow and finished with Contech End Sections generally require no additional hydraulic controls.

Improved appearance

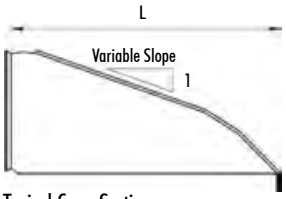
Contech End Sections blend well with the surroundings. The tapered sides of an End Section merge with slope design to improve roadside appearance. Unsightly weeds and debris collection at the culvert end are reduced.

Economical installation

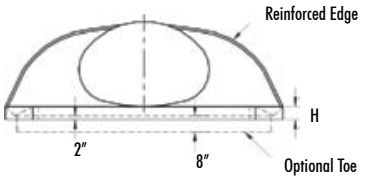
Lightweight equipment and simple crew instructions result in smooth and easy installation. Contech End Sections are easily joined to culvert barrels, forming a continuous, one-piece structure. For easiest installation, End Sections should be installed at the same time as the culvert. Installation is completed by tamping soil around the End Section.

Low maintenance

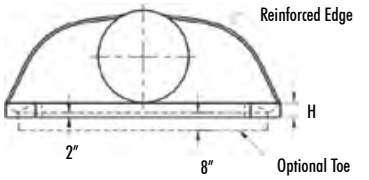
Contech End Sections reduce maintenance expense because their tapered design promotes easier mowing and snow removal. There is no obstruction to hamper weed cutting.



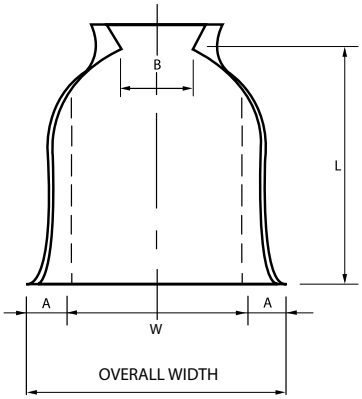
Typical Cross Section



Elevation



Elevation



Plan

Notes for all End Sections:

1. All three-piece bodies to have 12-gage sides and 10-gage center panels. Multiple panel bodies to have lap seams which are to be tightly joined by galvanized rivets or bolts.
2. For 60″ through 84″ sizes, reinforced edges are supplemented with stiffener angles. The angles are attached by galvanized nuts and bolts. For the 66″ and 72″ equivalent round pipe-arch sizes, reinforced edges are supplemented by angles. The angles are attached by galvanized nuts and bolts.
3. Angle reinforcements are placed under the center panel seams on the 66″ and 72″ equivalent round pipe-arch sizes.
4. Toe plate is available as an accessory, when specified on the order, and will be same gage as the End Section.
5. Stiffener angles, angle reinforcement, and toe plates are the same base metal as end section body.
6. **End sections with 6:1 and 4:1 slopes are available in 12″ through 24″ diameters.**
7. Actual dimensions may vary slightly.
8. During manufacturing, a slight invert slope may result along the length of the end section to be accommodated in the field.

End Sections for Round Pipe (2-2/3″ x 1/2″, 3″ x 1″ and 5″ x 1″)

		Approximate Dimensions, Inches [7]					
Pipe Diameter (Inches)	**Gage**	**A (+/- 1") (Inches)**	**B (Max) (Inches)**	**H (Min) (Inches)**	**L (+/-2") (Inches)**	**W (+/- 2") (Inches)**	**Overall Width (+/- 4") (Inches)**
12	16	6	6	6	21	24	36
15	16	7	8	6	26	30	44
18	16	8	10	6	31	36	52
21	16	9	12	6	36	42	60
24	16	10	13	6	41	48	68
30	14	12	16	8	51	60	84
36	14	14	19	9	60	72	100
42	12	16	22	11	69	84	116
48	12	18	27	12	78	90	126
54	12	18	30	12	84	102	138
60	12/10	18	33	12	87	114	150
66	12/10	18	36	12	87	120	156
72	12/10	18	39	12	87	126	162
78	12/10	18	42	12	87	132	168
84	12/10	18	45	12	87	138	174

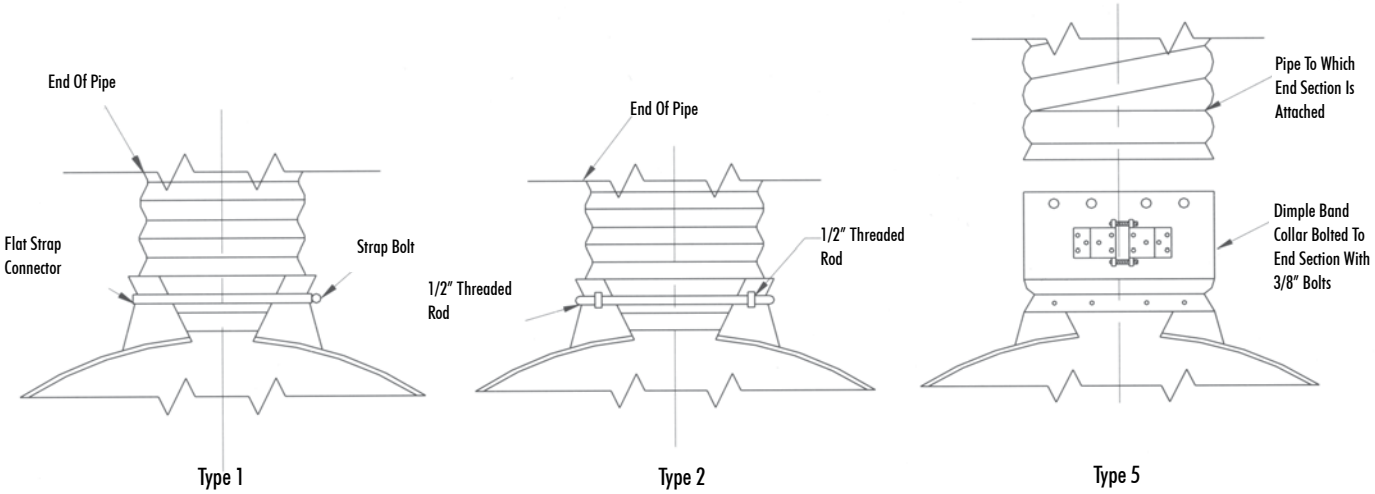
End Sections for Pipe-Arch (2-2/3″ x 1/2″)

			Approximate Dimensions, Inches [7]					
Span/Rise	**Equiv. Round (Inches)**	**Gage**	**A (+/- 1") (Inches)**	**B (Max) (Inches)**	**H (+/- 1") (Inches)**	**L (+/- 2") (Inches)**	**W (+/- 2") (Inches)**	**Overall Width (+/- 4") (Inches)**
17″x13″	15	16	7	9	6	19	30	44
21″x15″	18	16	7	10	6	23	36	50
24″x18″	21	16	8	12	6	28	42	58
28″x20″	24	16	9	14	6	32	48	66
35″x24″	30	14	10	16	6	39	60	80
42″x29″	36	14	12	18	8	46	75	99
49″x33″	42	12	13	21	9	53	85	111
57″x38″	48	12	18	26	12	63	90	126
64″x43″	54	12	18	30	12	70	102	138
71″x47″	60	12/10	18	33	12	77	114	150
77″x52″	66	12/10	18	36	12	77	126	162
83″x57″	72	12/10	18	39	12	77	138	174

End Sections for Pipe-Arch (3″ x 1″ and 5″ x 1″)

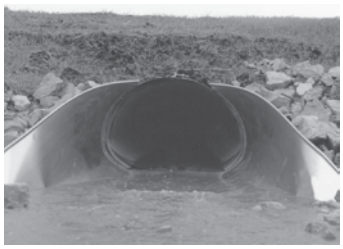
			Approximate Dimensions, Inches [7]					
Span/Rise	**Equiv. Round (Inches)**	**Gage**	**A (+/- 1") (Inches)**	**B (Max) (Inches)**	**H (+/- 1") (Inches)**	**W (+/- 2") (Inches)**	**L (+/- 2") (Inches)**	**Overall Width (+/- 4") (Inches)**
53″x41″	48	12	18	25	12	90	63	126
60″x46″	54	12	18	34	12	102	70	138
66″x51″	60	12/10	18	33	12	116	77	152
73″x55″	66	12/10	18	36	12	126	77	162
81″x59″	72	12/10	18	39	12	138	77	174
87″x63″	78	12/10	20	38	12	148	77	188
95″x67″	84	12/10	20	34	12	162	87	202
103″X71″	90	12/10	20	38	12	174	87	214
112″x75″	96	12/10	20	40	12	174	87	214

Contech End Sections attach to corrugated metal pipe, reinforced concrete and plastic pipe.



Note: *The Type 3 connection is not illustrated. This connection is a one-foot length of pipe attached to the end section.*

End Section on Round CSP



End Sections are available for CSP Pipe-Arch

Contech End Sections are often used on concrete pipe. They can be used on both the bell and spigot end.

Low-slope End Sections—Contech manufactures 4:1 and 6:1 low-slope End Sections for corrugated metal pipe. This photo shows the optional field-attached safety bars.

Contech Engineered Solutions LLC is a leading provider of site solution products and services for the civil engineering industry. Contech's product portfolio includes bridges, drainage, retaining walls, sanitary sewer, stormwater, erosion control, soil stabilization and wastewater products.

For more information, call one of Contech's Regional Offices located in the following cities:

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Colorado (Denver) 720-587-2700
Florida (Orlando) 321-348-3520
Maine (Scarborough) 207-885-9830
Maryland (Baltimore) 410-740-8490
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800-338-1122

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ENGINEERED SOLUTIONS

BRO-CMP-DESIGN 8/14 3M PDF

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Attachment C
Educational Materials

Spill Prevention, Control & Cleanup SC-11

Description

Many activities that occur at an industrial or commercial site have the potential to cause accidental spills. Preparation for accidental spills, with proper training and reporting systems implemented, can minimize the discharge of pollutants to the environment.

Spills and leaks are one of the largest contributors of stormwater pollutants. Spill prevention and control plans are applicable to any site at which hazardous materials are stored or used. An effective plan should have spill prevention and response procedures that identify hazardous material storage areas, specify material handling procedures, describe spill response procedures, and provide locations of spill clean-up equipment and materials. The plan should take steps to identify and characterize potential spills, eliminate and reduce spill potential, respond to spills when they occur in an effort to prevent pollutants from entering the stormwater drainage system, and train personnel to prevent and control future spills. An adequate supply of spill clean-up materials must be maintained onsite.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

Approach

General Pollution Prevention Protocols

- ☐ Develop procedures to prevent/mitigate spills to storm drain systems.
- ☐ Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.
- ☐ Establish procedures and/or controls to minimize spills and leaks. The procedures should address:
  - ✓ Description of the facility, owner and address, activities, chemicals, and quantities present;

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- ✓ Facility map of the locations of industrial materials;
- ✓ Notification and evacuation procedures;
- ✓ Cleanup instructions;
- ✓ Identification of responsible departments; and
- ✓ Identify key spill response personnel.

- ☐ Recycle, reclaim, or reuse materials whenever possible. This will reduce the amount of process materials that are brought into the facility.

Spill and Leak Prevention and Response

Spill Prevention

- ☐ Develop procedures to prevent/mitigate spills to storm drain systems. Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.

- ☐ If illegal dumping is observed at the facility:
  - ✓ Post "No Dumping" signs with a phone number for reporting illegal dumping and disposal. Signs should also indicate fines and penalties applicable for illegal dumping.
  - ✓ Landscaping and beautification efforts may also discourage illegal dumping.
  - ✓ Bright lighting and/or entrance barriers may also be needed to discourage illegal dumping.

- ☐ Store and contain liquid materials in such a manner that if the container is ruptured, the contents will not discharge, flow, or be washed into the storm drainage system, surface waters, or groundwater.

- ☐ If the liquid is oil, gas, or other material that separates from and floats on water, install a spill control device (such as a tee section) in the catch basins that collects runoff from the storage tank area.

Preventative Maintenance

- ☐ Place drip pans or absorbent materials beneath all mounted taps, and at all potential drip and spill locations during filling and unloading of tanks. Any collected liquids or soiled absorbent materials must be reused/recycled or properly disposed.

- ☐ Store and maintain appropriate spill cleanup materials in a location known to all near the tank storage area; and ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.

- ☐ Sweep and clean the storage area monthly if it is paved, *do not hose down the area to a storm drain.*

- ☐ Check tanks (and any containment sumps) daily for leaks and spills. Replace tanks that are leaking, corroded, or otherwise deteriorating with tanks in good condition. Collect all spilled liquids and properly dispose of them.

- ☐ Label all containers according to their contents (e.g., solvent, gasoline).

- ☐ Label hazardous substances regarding the potential hazard (corrosive, radioactive, flammable, explosive, poisonous).

- ☐ Prominently display required labels on transported hazardous and toxic materials (per US DOT regulations).

- ☐ Identify key spill response personnel.

Spill Response

- ☐ Clean up leaks and spills immediately.

- ☐ Place a stockpile of spill cleanup materials where it will be readily accessible (e.g., near storage and maintenance areas).

- ☐ On paved surfaces, clean up spills with as little water as possible.

  - ✓ Use a rag for small spills, a damp mop for general cleanup, and absorbent material for larger spills.

  - ✓ If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be sent to a certified laundry (rags) or disposed of as hazardous waste.

  - ✓ If possible use physical methods for the cleanup of dry chemicals (e.g., brooms, shovels, sweepers, or vacuums).

- ☐ Never hose down or bury dry material spills. Sweep up the material and dispose of properly.

- ☐ Chemical cleanups of material can be achieved with the use of adsorbents, gels, and foams. Use adsorbent materials on small spills rather than hosing down the spill. Remove the adsorbent materials promptly and dispose of properly.

- ☐ For larger spills, a private spill cleanup company or Hazmat team may be necessary.

Reporting

- Report spills that pose an immediate threat to human health or the environment to the Regional Water Quality Control Board or local authority as location regulations dictate.
- Federal regulations require that any oil spill into a water body or onto an adjoining shoreline be reported to the National Response Center (NRC) at 800-424-8802 (24 hour).
- Report spills to 911 for dispatch and clean-up assistance when needed. Do not contact fire agencies directly.
- Establish a system for tracking incidents. The system should be designed to identify the following:
  - ✓ Types and quantities (in some cases) of wastes;
  - ✓ Patterns in time of occurrence (time of day/night, month, or year);
  - ✓ Mode of dumping (abandoned containers, "midnight dumping" from moving vehicles, direct dumping of materials, accidents/spills);
  - ✓ Clean-up procedures; and
  - ✓ Responsible parties.

Employee Training Program

- Educate employees about spill prevention and cleanup.
- Well-trained employees can reduce human errors that lead to accidental releases or spills:
  - ✓ The employee should have the tools and knowledge to immediately begin cleaning up a spill should one occur; and
  - ✓ Employees should be familiar with the Spill Prevention Control and Countermeasure Plan.
- Employees should be educated about aboveground storage tank requirements. Employees responsible for aboveground storage tanks and liquid transfers should be thoroughly familiar with the Spill Prevention Control and Countermeasure Plan and the plan should be readily available.
- Train employees to recognize and report illegal dumping incidents.

Other Considerations (Limitations and Regulations)

- State regulations exist for facilities with a storage capacity of 10,000 gallons or more of petroleum to prepare a Spill Prevention Control and Countermeasure (SPCC) Plan (Health & Safety Code Chapter 6.67).
- State regulations also exist for storage of hazardous materials (Health & Safety Code Chapter 6.95), including the preparation of area and business plans for emergency response to the releases or threatened releases.
- Consider requiring smaller secondary containment areas (less than 200 sq. ft.) to be connected to the sanitary sewer, prohibiting any hard connections to the storm drain.

Requirements

Costs (including capital and operation & maintenance)

- Will vary depending on the size of the facility and the necessary controls.
- Prevention of leaks and spills is inexpensive. Treatment and/or disposal of contaminated soil or water can be quite expensive.

Maintenance (including administrative and staffing)

- Develop spill prevention and control plan, provide and document training, conduct inspections of material storage areas, and supply spill kits.
- Extra time is needed to properly handle and dispose of spills, which results in increased labor costs.

Supplemental Information

Further Detail of the BMP

Reporting

Record keeping and internal reporting represent good operating practices because they can increase the efficiency of the facility and the effectiveness of BMPs. A good record keeping system helps the facility minimize incident recurrence, correctly respond with appropriate cleanup activities, and comply with legal requirements. A record keeping and reporting system should be set up for documenting spills, leaks, and other discharges, including discharges of hazardous substances in reportable quantities. Incident records describe the quality and quantity of non-stormwater discharges to the storm sewer. These records should contain the following information:

- Date and time of the incident;
- Weather conditions;
- Duration of the spill/leak/discharge;

- Cause of the spill/leak/discharge;
- Response procedures implemented;
- Persons notified; and
- Environmental problems associated with the spill/leak/discharge.

Separate record keeping systems should be established to document housekeeping and preventive maintenance inspections, and training activities. All housekeeping and preventive maintenance inspections should be documented. Inspection documentation should contain the following information:

- Date and time the inspection was performed;
- Name of the inspector;
- Items inspected;
- Problems noted;
- Corrective action required; and
- Date corrective action was taken.

Other means to document and record inspection results are field notes, timed and dated photographs, videotapes, and drawings and maps.

Aboveground Tank Leak and Spill Control

Accidental releases of materials from aboveground liquid storage tanks present the potential for contaminating stormwater with many different pollutants. Materials spilled, leaked, or lost from tanks may accumulate in soils or on impervious surfaces and be carried away by stormwater runoff.

The most common causes of unintentional releases are:

- Installation problems;
- Failure of piping systems (pipes, pumps, flanges, couplings, hoses, and valves);
- External corrosion and structural failure;
- Spills and overfills due to operator error; and
- Leaks during pumping of liquids or gases from truck or rail car to a storage tank or vice versa.

Storage of reactive, ignitable, or flammable liquids should comply with the Uniform Fire Code and the National Electric Code. Practices listed below should be employed to enhance the code requirements:

- Tanks should be placed in a designated area.
- Tanks located in areas where firearms are discharged should be encapsulated in concrete or the equivalent.
- Designated areas should be impervious and paved with Portland cement concrete, free of cracks and gaps, in order to contain leaks and spills.
- Liquid materials should be stored in UL approved double walled tanks or surrounded by a curb or dike to provide the volume to contain 10 percent of the volume of all of the containers or 110 percent of the volume of the largest container, whichever is greater. The area inside the curb should slope to a drain.
- For used oil or dangerous waste, a dead-end sump should be installed in the drain.
- All other liquids should be drained to the sanitary sewer if available. The drain must have a positive control such as a lock, valve, or plug to prevent release of contaminated liquids.
- Accumulated stormwater in petroleum storage areas should be passed through an oil/water separator.

Maintenance is critical to preventing leaks and spills. Conduct routine inspections and:

- Check for external corrosion and structural failure.
- Check for spills and overfills due to operator error.
- Check for failure of piping system (pipes, pumps, flanges, coupling, hoses, and valves).
- Check for leaks or spills during pumping of liquids or gases from truck or rail car to a storage facility or vice versa.
- Visually inspect new tank or container installation for loose fittings, poor welding, and improper or poorly fitted gaskets.
- Inspect tank foundations, connections, coatings, and tank walls and piping system. Look for corrosion, leaks, cracks, scratches, and other physical damage that may weaken the tank or container system.
- Frequently relocate accumulated stormwater during the wet season.

- Periodically conduct integrity testing by a qualified professional.

Vehicle Leak and Spill Control

Major spills on roadways and other public areas are generally handled by highly trained Hazmat teams from local fire departments or environmental health departments. The measures listed below pertain to leaks and smaller spills at vehicle maintenance shops.

In addition to implementing the spill prevention, control, and clean up practices above, use the following measures related to specific activities:

Vehicle and Equipment Maintenance

- Perform all vehicle fluid removal or changing inside or under cover to prevent the run-on of stormwater and the runoff of spills.
- Regularly inspect vehicles and equipment for leaks, and repair immediately.
- Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.
- Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- Immediately drain all fluids from wrecked vehicles.
- Store wrecked vehicles or damaged equipment under cover.
- Place drip pans or absorbent materials under heavy equipment when not in use.
- Use absorbent materials on small spills rather than hosing down the spill.
- Remove the adsorbent materials promptly and dispose of properly.
- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- Oil filters disposed of in trashcans or dumpsters can leak oil and contaminate stormwater. Place the oil filter in a funnel over a waste oil recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask your oil supplier or recycler about recycling oil filters.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries, even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

Vehicle and Equipment Fueling

- Design the fueling area to prevent the run-on of stormwater and the runoff of spills:

  Cover fueling area if possible.

  Use a perimeter drain or slope pavement inward with drainage to a sump.

  Pave fueling area with concrete rather than asphalt.

- If dead-end sump is not used to collect spills, install an oil/water separator.
- Install vapor recovery nozzles to help control drips as well as air pollution.
- Discourage "topping-off' of fuel tanks.
- Use secondary containment when transferring fuel from the tank truck to the fuel tank.
- Use absorbent materials on small spills and general cleaning rather than hosing down the area. Remove the absorbent materials promptly.
- Carry out all Federal and State requirements regarding underground storage tanks, or install above ground tanks.
- Do not use mobile fueling of mobile industrial equipment around the facility; rather, transport the equipment to designated fueling areas.
- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Train employees in proper fueling and cleanup procedures.

Industrial Spill Prevention Response

For the purposes of developing a spill prevention and response program to meet the stormwater regulations, facility managers should use information provided in this fact sheet and the spill prevention/response portions of the fact sheets in this handbook, for specific activities.

The program should:

- Integrate with existing emergency response/hazardous materials programs (e.g., Fire Department).
- Develop procedures to prevent/mitigate spills to storm drain systems.
- Identify responsible departments.

- Develop and standardize reporting procedures, containment, storage, and disposal activities, documentation, and follow-up procedures.
- Address spills at municipal facilities, as well as public areas.
- Provide training concerning spill prevention, response and cleanup to all appropriate personnel.

References and Resources

California's Nonpoint Source Program Plan. http://www.swrcb.ca.gov/nps/index.html.

Clark County Storm Water Pollution Control Manual. Available online at: http://www.co.clark.wa.us/pubworks/bmpman.pdf.

King County Storm Water Pollution Control Manual. Available online at: http://dnr.metrokc.gov/wlr/dss/spcm.htm.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp.org.

The Stormwater Managers Resource Center. http://www.stormwatercenter.net/.

Outdoor Loading/Unloading SC-30

Description

The loading/unloading of materials usually takes place outside on docks or terminals; therefore, materials spilled, leaked, or lost during loading/unloading may collect in the soil or on other surfaces and have the potential to be carried away by wind, stormwater runoff or when the area is cleaned. Additionally, rainfall may wash pollutants from machinery used to unload or move materials. Implementation of the following protocols will prevent or reduce the discharge of pollutants to stormwater from outdoor loading/unloading of materials.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- Park tank trucks or delivery vehicles in designated areas so that spills or leaks can be contained.
- Limit exposure of material to rainfall whenever possible.
- Prevent stormwater run-on.
- Check equipment regularly for leaks.

Good Housekeeping

- Develop an operations plan that describes procedures for loading and/or unloading.
- Conduct loading and unloading in dry weather if possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Cover designated loading/unloading areas to reduce exposure of materials to rain.
- Consider placing a seal or door skirt between delivery vehicles and building to prevent exposure to rain.
- Design loading/unloading area to prevent stormwater run-on, which would include grading or berming the area, and position roof downspouts so they direct stormwater away from the loading/unloading areas.
- Have employees load and unload all materials and equipment in covered areas such as building overhangs at loading docks if feasible.
- Load/unload only at designated loading areas.
- Use drip pans underneath hose and pipe connections and other leak-prone spots during liquid transfer operations, and when making and breaking connections. Several drip pans should be stored in a covered location near the liquid transfer area so that they are always available, yet protected from precipitation when not in use. Drip pans can be made specifically for railroad tracks. Drip pans must be cleaned periodically, and drip collected materials must be disposed of properly.
- Pave loading areas with concrete instead of asphalt.
- Avoid placing storm drains inlets in the area.
- Grade and/or berm the loading/unloading area with drainage to sump; regularly remove materials accumulated in sump.

Spill Response and Prevention Procedures

- Keep your spill prevention and control plan up-to-date or have an emergency spill cleanup plan readily available, as applicable.
- Contain leaks during transfer.
- Store and maintain appropriate spill cleanup materials in a location that is readily accessible and known to all employees.
- Ensure that employees are familiar with the site's spill control plan and proper spill cleanup procedures.
- Use drip pans or comparable devices when transferring oils, solvents, and paints.

Material Handling and Waste Management

- Spot clean leaks and drips routinely to prevent runoff of spillage.
- Do not pour liquid wastes into floor drains, sinks, outdoor storm drain inlets, or other storm drains or sewer connections.

- Do not put used or leftover cleaning solutions, solvents, and automotive fluids in the storm drain or sanitary sewer.
- Collect leaking or dripping fluids in drip pans or containers. Fluids are easier to recycle if kept separate.
- Promptly transfer used fluids to the proper waste or recycling drums. Do not leave drip pans or other open containers lying around.
- Minimize the possibility of stormwater pollution from outside waste receptacles by doing at least one of the following:
  - ✓ Use only watertight waste receptacle(s) and keep the lid(s) closed.
  - ✓ Grade and pave the waste receptacle area to prevent run-on of stormwater.
  - ✓ Install a roof over the waste receptacle area.
  - ✓ Install a low containment berm around the waste receptacle area.
  - ✓ Use and maintain drip pans under waste receptacles.
- Post "no littering" signs.
- Perform work area clean-up and dry sweep after daily operations.

Employee Training Program

- Train employees (e.g., fork lift operators) and contractors on proper spill containment and cleanup.
- Have employees trained in spill containment and cleanup present during loading/unloading.
- Train employees in proper handling techniques during liquid transfers to avoid spills.
- Make sure forklift operators are properly trained on loading and unloading procedures.

Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document activities performed, quantities of materials removed, and improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.
- Keep accurate logs of daily clean-up operations.

Potential Limitations and Work-Arounds

Some facilities may have space constraints, limited staffing and time limitations that may preclude implementation of BMPs. Provided below are typical limitations and recommended "work-arounds."

- Space and time limitations may preclude all transfers from being performed indoors or under cover.
  - ✓ Designate specific areas for outdoor loading and unloading.
  - ✓ Require employees to understand and follow spill and leak prevention BMPs.
- It may not be possible to conduct transfers only during dry weather.
  - ✓ Limit materials and equipment rainfall exposure to all extents practicable.
  - ✓ Require employees to understand and follow spill and leak prevention BMPs.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

Many facilities will already have indoor or covered areas where loading/unloading takes place and will require no additional capital expenditures.

If outdoor activities are required, construction of berms or other means to retain spills and leaks may require appropriate constructed systems for containment. These containment areas may require significant new capital investment.

Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

Most of the operations and maintenance activities associated with implementing this BMP are integrally linked to routine operations as previously described. Therefore additional O&M is not required.

- Conduct regular inspections and make repairs and improvements as necessary.
- Check loading and unloading equipment regularly for leaks.
- Conduct regular broom dry-sweeping of area. Do not wash with water.

Supplemental Information

Loading and Unloading of Liquids

- Loading or unloading of liquids should occur in the manufacturing building so that any spills that are not completely retained can be discharged to the sanitary sewer,

treatment plant, or treated in a manner consistent with local sewer authorities and permit requirements.

- For loading and unloading tank trucks to above and below ground storage tanks, the following procedures should be used:
  - ✓ The area where the transfer takes place should be paved. If the liquid is reactive with the asphalt, Portland cement should be used to pave the area.
  - ✓ The transfer area should be designed to prevent run-on of stormwater from adjacent areas. Sloping the pad and using a curb, like a speed bump, around the uphill side of the transfer area should reduce run-on.
  - ✓ The transfer area should be designed to prevent runoff of spilled liquids from the area. Sloping the area to a drain should prevent runoff. The drain should be connected to a dead-end sump or to the sanitary sewer. A positive control valve should be installed on the drain.
- For transfer from rail cars to storage tanks that must occur outside, use the following procedures:
  - ✓ Drip pans should be placed at locations where spillage may occur, such as hose connections, hose reels, and filler nozzles. Use drip pans when making and breaking connections.
  - ✓ Drip pan systems should be installed between the rails to collect spillage from tank cars.

References and Resources

Minnesota Pollution Control Agency, *Industrial Stormwater Best Management Practices Guidebook BMP 26 Fueling and Liquid Loading/Unloading Operations*. Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

New Jersey Department of Environmental Protection, 2013. *Basic Industrial Stormwater General Permit Guidance Document NJPDES General Permit No NJ0088315*. Available online at: http://www.nj.gov/dep/dwq/pdf/5G2_guidance_color.pdf.

Orange County Stormwater Program, Best Management Practices for Industrial/Commercial Business Activities. Available online at: http://ocwatersheds.com/documents/bmp/industrialcommercialbusinessesactivities.

Oregon Department of Environmental Quality, 2013. *Industrial Stormwater Best Management Practices Manual- BMP 26 Fueling and Liquid Loading/Unloading Operations*. Available online at: http://www.deq.state.or.us/wq/wqpermit/docs/IndBMP021413.pdf.

Sacramento Stormwater Management Program, *Best Management Practices for Industrial Storm Water Pollution Control*. Available online at: http://www.msa.saccounty.net/sactostormwater/documents/guides/industrial-BMP-manual.pdf.

Sacramento County Environmental Management Stormwater Program: *Best Management Practices*. Available online at: http://www.emd.saccounty.net/EnvHealth/Stormwater/Stormwater-BMPs.html.

Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/.

US EPA. National Pollutant Discharge Elimination System – Industrial Fact Sheet Series for Activities Covered by EPA's Multi Sector General Permit. Available online at: http://cfpub.epa.gov/npdes/stormwater/swsectors.cfm.

Waste Handling & Disposal SC-34

Description

Improper storage and handling of solid wastes can allow toxic compounds, oils and greases, heavy metals, nutrients, suspended solids, and other pollutants to enter stormwater runoff. The discharge of pollutants to stormwater from waste handling and disposal can be prevented and reduced by tracking waste generation, storage, and disposal; reducing waste generation and disposal through source reduction, reuse, and recycling; and preventing run-on and runoff.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Accomplish reduction in the amount of waste generated using the following source controls:
  - ✓ Production planning and sequencing;
  - ✓ Process or equipment modification;
  - ✓ Raw material substitution or elimination;
  - ✓ Loss prevention and housekeeping;
  - ✓ Waste segregation and separation; and
  - ✓ Close loop recycling.
- ☐ Establish a material tracking system to increase awareness about material usage. This may reduce spills and minimize contamination, thus reducing the amount of waste produced.
- ☐ Recycle materials whenever possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	
Nutrients	
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Use the entire product before disposing of the container.
- To the extent possible, store wastes under cover or indoors after ensuring all safety concerns such as fire hazard and ventilation are addressed.
- Provide containers for each waste stream at each work station. Allow time after shift to clean area.

Good Housekeeping

- Cover storage containers with leak proof lids or some other means. If waste is not in containers, cover all waste piles (plastic tarps are acceptable coverage) and prevent stormwater run-on and runoff with a berm. The waste containers or piles must be covered except when in use.
- Use drip pans or absorbent materials whenever grease containers are emptied by vacuum trucks or other means. Grease cannot be left on the ground. Collected grease must be properly disposed of as garbage.
- Dispose of rinse and wash water from cleaning waste containers into a sanitary sewer if allowed by the local sewer authority. Do not discharge wash water to the street or storm drain. Clean in a designated wash area that drains to a clarifier.
- Transfer waste from damaged containers into safe containers.
- Take special care when loading or unloading wastes to minimize losses. Loading systems can be used to minimize spills and fugitive emission losses such as dust or mist. Vacuum transfer systems can minimize waste loss.
- Keep the waste management area clean at all times by sweeping and cleaning up spills immediately.
- Use dry methods when possible (e.g., sweeping, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Stencil or demarcate storm drains on the facility's property with prohibitive message regarding waste disposal.
- Cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene or hypalon.
- If possible, move the activity indoor after ensuring all safety concerns such as fire hazard and ventilation are addressed.

Preventative Maintenance

- Prevent stormwater run-on from entering the waste management area by enclosing the area or building a berm around the area.
- Prevent waste materials from directly contacting rain.

- Cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene or hypalon.
- Cover the area with a permanent roof if feasible.
- Cover dumpsters to prevent rain from washing waste out of holes or cracks in the bottom of the dumpster.
- Check waste containers weekly for leaks and to ensure that lids are on tightly. Replace any that are leaking, corroded, or otherwise deteriorating.
- Sweep and clean the waste management area regularly. Use dry methods when possible (e.g., sweeping, vacuuming, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Inspect and replace faulty pumps or hoses regularly to minimize the potential of releases and spills.
- Repair leaking equipment including valves, lines, seals, or pumps promptly.

Spill Response and Prevention Procedures

- Keep your spill prevention and plan up-to-date.
- Have an emergency plan, equipment and trained personnel ready at all times to deal immediately with major spills.
- Collect all spilled liquids and properly dispose of them.
- Store and maintain appropriate spill cleanup materials in a location known to all near the designated wash area.
- Ensure that vehicles transporting waste have spill prevention equipment that can prevent spills during transport. Spill prevention equipment includes:
  - ✓ Vehicles equipped with baffles for liquid waste; and
  - ✓ Trucks with sealed gates and spill guards for solid waste.

Material Handling and Waste Management

Litter Control

- Post "No Littering" signs and enforce anti-litter laws.
- Provide a sufficient number of litter receptacles for the facility.
- Clean out and cover litter receptacles frequently to prevent spillage.

Waste Collection

- Keep waste collection areas clean.

- Inspect solid waste containers for structural damage regularly. Repair or replace damaged containers as necessary.
- Secure solid waste containers; containers must be closed tightly when not in use.
- Do not fill waste containers with washout water or any other liquid.
- Ensure that only appropriate solid wastes are added to the solid waste container. Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc., may not be disposed of in solid waste containers (see chemical/ hazardous waste collection section below).
- Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal. Affix labels to all waste containers.

Chemical/Hazardous Wastes

- Select designated hazardous waste collection areas on-site.
- Store hazardous materials and wastes in covered containers and protect them from vandalism.
- Place hazardous waste containers in secondary containment.
- Make sure that hazardous waste is collected, removed, and disposed of only at authorized disposal areas.
- Hazardous waste cannot be reused or recycled; it must be disposed of by a licensed hazardous waste hauler.

Employee Training Program

- Educate employees about pollution prevention measures and goals.
- Train employees how to properly handle and dispose of waste using the source control BMPs described above.
- Train employees and subcontractors in proper hazardous waste management.
- Use a training log or similar method to document training.
- Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.

Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for waste handling and disposal, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.

- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital costs will vary substantially depending on the size of the facility and the types of waste handled. Significant capital costs may be associated with reducing wastes by modifying processes or implementing closed-loop recycling.
- Many facilities will already have indoor covered areas where waste materials will be stored and will require no additional capital expenditures for providing cover.
- If outdoor storage of wastes is required, construction of berms or other means to prevent stormwater run-on and runoff may require appropriate constructed systems for containment.
- Capital investments will likely be required at some sites if adequate cover and containment facilities do not exist and can vary significantly depending upon site conditions.

Maintenance

- Check waste containers weekly for leaks and to ensure that lids are on tightly. Replace any that are leaking, corroded, or otherwise deteriorating.
- Sweep and clean the waste management area regularly. Use dry methods when possible (e.g., sweeping, use of absorbents) when cleaning around restaurant/food handling dumpster areas. If water must be used after sweeping/using absorbents, collect water and discharge through grease interceptor to the sewer.
- Inspect and replace faulty pumps or hoses regularly to minimize the potential of releases and spills.
- Repair leaking equipment including valves, lines, seals, or pumps promptly.

References and Resources

Minnesota Pollution Control Agency, *Industrial Stormwater Best Management Practices Guidebook*. Available online at: http://www.pca.state.mn.us/index.php/view-document.html?gid=10557.

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Santa Clara Valley Urban Runoff Pollution Prevention Program. http://www.scvurppp-w2k.com/

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Building & Grounds Maintenance SC-41

Description

Stormwater runoff from building and grounds maintenance activities can be contaminated with toxic hydrocarbons in solvents, fertilizers and pesticides, suspended solids, heavy metals, abnormal pH, and oils and greases. Utilizing the protocols in this fact sheet will prevent or reduce the discharge of pollutants to stormwater from building and grounds maintenance activities by washing and cleaning up with as little water as possible, following good landscape management practices, preventing and cleaning up spills immediately, keeping debris from entering the storm drains, and maintaining the stormwater collection system.

Approach

Reduce potential for pollutant discharge through source control pollution prevention and BMP implementation. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Switch to non-toxic chemicals for maintenance to the maximum extent possible.
- ☐ Choose cleaning agents that can be recycled.
- ☐ Encourage proper lawn management and landscaping, including use of native vegetation.
- ☐ Encourage use of Integrated Pest Management techniques for pest control.
- ☐ Encourage proper onsite recycling of yard trimmings.
- ☐ Recycle residual paints, solvents, lumber, and other material as much as possible.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	✓
Trash	
Metals	✓
Bacteria	✓
Oil and Grease	
Organics	

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	✓
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Clean work areas at the end of each work shift using dry cleaning methods such as sweeping and vacuuming.

Good Housekeeping

Pressure Washing of Buildings, Rooftops, and Other Large Objects

- In situations where soaps or detergents are used and the surrounding area is paved, pressure washers must use a water collection device that enables collection of wash water and associated solids. A sump pump, wet vacuum or similarly effective device must be used to collect the runoff and loose materials. The collected runoff and solids must be disposed of properly.

- If soaps or detergents are not used, and the surrounding area is paved, wash runoff does not have to be collected but must be screened. Pressure washers must use filter fabric or some other type of screen on the ground and/or in the catch basin to trap the particles in wash water runoff.

- If you are pressure washing on a grassed area (with or without soap), runoff must be dispersed as sheet flow as much as possible, rather than as a concentrated stream. The wash runoff must remain on the grass and not drain to pavement.

Landscaping Activities

- Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage, or by composting. Do not dispose of collected vegetation into waterways or storm drainage systems.

- Use mulch or other erosion control measures on exposed soils. See also SC-40, Contaminated and Erodible Areas, for more information.

Building Repair, Remodeling, and Construction

- Do not dump any toxic substance or liquid waste on the pavement, the ground, or toward a storm drain.

- Use ground or drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of collected material daily.

- Use a ground cloth or oversized tub for activities such as paint mixing and tool cleaning.

- Clean paintbrushes and tools covered with water-based paints in sinks connected to sanitary sewers or in portable containers that can be dumped into a sanitary sewer drain. Brushes and tools covered with non-water-based paints, finishes, or other materials must be cleaned in a manner that enables collection of used solvents (e.g., paint thinner, turpentine, etc.) for recycling or proper disposal.

- Use a storm drain cover, filter fabric, or similarly effective runoff control mechanism if dust, grit, wash water, or other pollutants may escape the work area and enter a catch basin. This is particularly necessary on rainy days. The containment device(s) must be in place at the beginning of the work day, and accumulated dirty runoff and

solids must be collected and disposed of before removing the containment device(s) at the end of the work day.

- If you need to de-water an excavation site, you may need to filter the water before discharging to a catch basin or off-site. If directed off-site, you should direct the water through hay bales and filter fabric or use other sediment filters or traps.
- Store toxic material under cover during precipitation events and when not in use. A cover would include tarps or other temporary cover material.

Mowing, Trimming, and Planting

- Dispose of leaves, sticks, or other collected vegetation as garbage, by composting or at a permitted landfill. Do not dispose of collected vegetation into waterways or storm drainage systems.
- Use mulch or other erosion control measures when soils are exposed.
- Place temporarily stockpiled material away from watercourses and drain inlets, and berm or cover stockpiles to prevent material releases to the storm drain system.
- Consider an alternative approach when bailing out muddy water: do not put it in the storm drain; pour over landscaped areas.
- Use hand weeding where practical.

Fertilizer and Pesticide Management

- Do not use pesticides if rain is expected.
- Do not mix or prepare pesticides for application near storm drains.
- Use the minimum amount needed for the job.
- Calibrate fertilizer distributors to avoid excessive application.
- Employ techniques to minimize off-target application (e.g., spray drift) of pesticides, including consideration of alternative application techniques.
- Apply pesticides only when wind speeds are low.
- Fertilizers should be worked into the soil rather than dumped or broadcast onto the surface.
- Irrigate slowly to prevent runoff and then only as much as is needed.
- Clean pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.

Inspection

- Inspect irrigation system periodically to ensure that the right amount of water is being applied and that excessive runoff is not occurring. Minimize excess watering and repair leaks in the irrigation system as soon as they are observed.

Building & Grounds Maintenance SC-41

Spill Response and Prevention Procedures

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place a stockpile of spill cleanup materials, such as brooms, dustpans, and vacuum sweepers (if desired) near the storage area where it will be readily accessible.
- Have employees trained in spill containment and cleanup present during the loading/unloading of dangerous wastes, liquid chemicals, or other materials.
- Familiarize employees with the Spill Prevention Control and Countermeasure Plan.
- Clean up spills immediately.

Material Handling and Waste Management

- Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers and pesticides and training of applicators and pest control advisors.
- Use less toxic pesticides that will do the job when applicable. Avoid use of copper-based pesticides if possible.
- Dispose of empty pesticide containers according to the instructions on the container label.
- Use up the pesticides. Rinse containers, and use rinse water as product. Dispose of unused pesticide as hazardous waste.
- Implement storage requirements for pesticide products with guidance from the local fire department and County Agricultural Commissioner. Provide secondary containment for pesticides.

Employee Training Program

- Educate and train employees on pesticide use and in pesticide application techniques to prevent pollution.
- Train employees and contractors in proper techniques for spill containment and cleanup.
- Be sure the frequency of training takes into account the complexity of the operations and the needs of individual staff.

Quality Assurance and Record Keeping

- Keep accurate logs that document maintenance activities performed and minimum BMP measures implemented.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Additional capital costs are not anticipated for building and grounds maintenance. Implementation of the minimum BMPs described above should be conducted as part of regular site operations.

Maintenance

- Maintenance activities for the BMPs described above will be minimal, and no additional cost is anticipated.

Supplemental Information

Fire Sprinkler Line Flushing

Site fire sprinkler line flushing may be a source of non-stormwater runoff pollution. The water entering the system is usually potable water, though in some areas it may be non-potable reclaimed wastewater. There are subsequent factors that may drastically reduce the quality of the water in such systems. Black iron pipe is usually used since it is cheaper than potable piping, but it is subject to rusting and results in lower quality water. Initially, the black iron pipe has an oil coating to protect it from rusting between manufacture and installation; this will contaminate the water from the first flush but not from subsequent flushes. Nitrates, poly-phosphates and other corrosion inhibitors, as well as fire suppressants and antifreeze may be added to the sprinkler water system. Water generally remains in the sprinkler system a long time (typically a year) and between flushes may accumulate iron, manganese, lead, copper, nickel, and zinc. The water generally becomes anoxic and contains living and dead bacteria and breakdown products from chlorination. This may result in a significant BOD problem and the water often smells. Consequently dispose fire sprinkler line flush water into the sanitary sewer. Do not allow discharge to storm drain or infiltration due to potential high levels of pollutants in fire sprinkler line water.

References and Resources

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Parking Area Maintenance SC-43

Description

Parking lots can contribute a number of substances, such as trash, suspended solids, hydrocarbons, oil and grease, and heavy metals that can enter receiving waters through stormwater runoff or non-stormwater discharges. The protocols in this fact sheet are intended to prevent or reduce the discharge of pollutants from parking areas and include using good housekeeping practices, following appropriate cleaning BMPs, and training employees.

BMPs for other outdoor areas on site (loading/unloading, material storage, and equipment operations) are described in SC-30 through SC-33.

Approach

The goal of this program is to ensure stormwater pollution prevention practices are considered when conducting activities on or around parking areas to reduce potential for pollutant discharge to receiving waters. Successful implementation depends on effective training of employees on applicable BMPs and general pollution prevention strategies and objectives.

General Pollution Prevention Protocols

- ☐ Encourage advanced designs and maintenance strategies for impervious parking lots. Refer to the treatment control BMP fact sheets in this manual for additional information.
- ☐ Keep accurate maintenance logs to evaluate BMP implementation.

Good Housekeeping

- ☐ Keep all parking areas clean and orderly. Remove debris, litter, and sediments in a timely fashion.
- ☐ Post "No Littering" signs and enforce anti-litter laws.

Objectives
■ *Cover*
■ *Contain*
■ *Educate*
■ *Reduce/Minimize*
■ *Product Substitution*

Targeted Constituents	
Sediment	✓
Nutrients	
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

Minimum BMPs Covered	
Good Housekeeping	✓
Preventative Maintenance	✓
Spill and Leak Prevention and Response	✓
Material Handling & Waste Management	
Erosion and Sediment Controls	
Employee Training Program	✓
Quality Assurance Record Keeping	✓

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- Provide an adequate number of litter receptacles.
- Clean out and cover litter receptacles frequently to prevent spillage.

Preventative Maintenance

Inspection

Have designated personnel conduct inspections of parking facilities and stormwater conveyance systems associated with parking facilities on a regular basis.

- Inspect cleaning equipment/sweepers for leaks on a regular basis.

Surface Cleaning

- Use dry cleaning methods (e.g., sweeping, vacuuming) to prevent the discharge of pollutants into the stormwater conveyance system if possible.
- Establish frequency of public parking lot sweeping based on usage and field observations of waste accumulation.
- Sweep all parking lots at least once before the onset of the wet season.
- Dispose of parking lot sweeping debris and dirt at a landfill.
- Follow the procedures below if water is used to clean surfaces:
  - ✓ Block the storm drain or contain runoff.
  - ✓ Collect and pump wash water to the sanitary sewer or discharge to a pervious surface. Do not allow wash water to enter storm drains.
- Follow the procedures below when cleaning heavy oily deposits:
  - ✓ Clean oily spots with absorbent materials.
  - ✓ Use a screen or filter fabric over inlet, then wash surfaces.
  - ✓ Do not allow discharges to the storm drain.
  - ✓ Vacuum/pump discharges to a tank or discharge to sanitary sewer.
  - ✓ Dispose of spilled materials and absorbents appropriately.

Surface Repair

- Check local ordinance for SUSMP/LID ordinance.
- Preheat, transfer or load hot bituminous material away from storm drain inlets.
- Apply concrete, asphalt, and seal coat during dry weather to prevent contamination from contacting stormwater runoff.
- Cover and seal nearby storm drain inlets where applicable (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc. Leave covers in

place until job is complete and all water from emulsified oil sealants has drained or evaporated. Clean any debris from these covered manholes and drains for proper disposal.

- Use only as much water as necessary for dust control during sweeping to avoid runoff.
- Catch drips from paving equipment that is not in use with pans or absorbent material placed under the machines. Dispose of collected material and absorbents properly.

Spill Response and Prevention Procedures

- Keep your Spill Prevention Control and Countermeasure (SPCC) Plan up-to-date.
- Place a stockpile of spill cleanup materials where it will be readily accessible or at a central location.
- Clean up fluid spills immediately with absorbent rags or material.
- Dispose of spilled material and absorbents properly.

Employee Training Program

- Provide regular training to field employees and/or contractors regarding cleaning of paved areas and proper operation of equipment.
- Train employees and contractors in proper techniques for spill containment and cleanup.
- Use a training log or similar method to document training.

Quality Assurance and Record Keeping

- Keep accurate maintenance logs that document minimum BMP activities performed for parking area maintenance, types and quantities of waste disposed of, and any improvement actions.
- Keep accurate logs of spill response actions that document what was spilled, how it was cleaned up, and how the waste was disposed.
- Establish procedures to complete logs and file them in the central office.

Potential Capital Facility Costs and Operation & Maintenance Requirements

Facilities

- Capital investments may be required at some sites to purchase sweeping equipment, train sweeper operators, install oil/water/sand separators, or implement advanced BMPs. These costs can vary significantly depending upon site conditions and the amount of BMPs required.

Maintenance

- Sweep and clean parking lots regularly to minimize pollutant transport into storm drains from stormwater runoff.
- Clean out oil/water/sand separators regularly, especially after heavy storms.
- Maintain advanced BMPs such as vegetated swales, infiltration trenches, or detention basins as appropriate. Refer to the treatment control fact sheets for more information.

Supplemental Information

Advanced BMPs

Some parking areas may require advanced BMPs to further reduce pollutants in stormwater runoff, and a few examples are listed below. Refer to the Treatment Control Fact Sheets and the New Development and Redevelopment Manual for more information.

- When possible, direct sheet runoff to flow into biofilters (vegetated strip and swale) and/or infiltration devices.
- Utilize sand filters or oleophilic collectors for oily waste in low quantities.
- Arrange rooftop drains to prevent drainage directly onto paved surfaces.
- Design lot to include semi-permeable hardscape.

References and Resources

City of Seattle, Seattle Public Utilities Department of Planning and Development, 2009. *Stormwater Manual Vol. 1 Source Control Technical Requirements Manual.*

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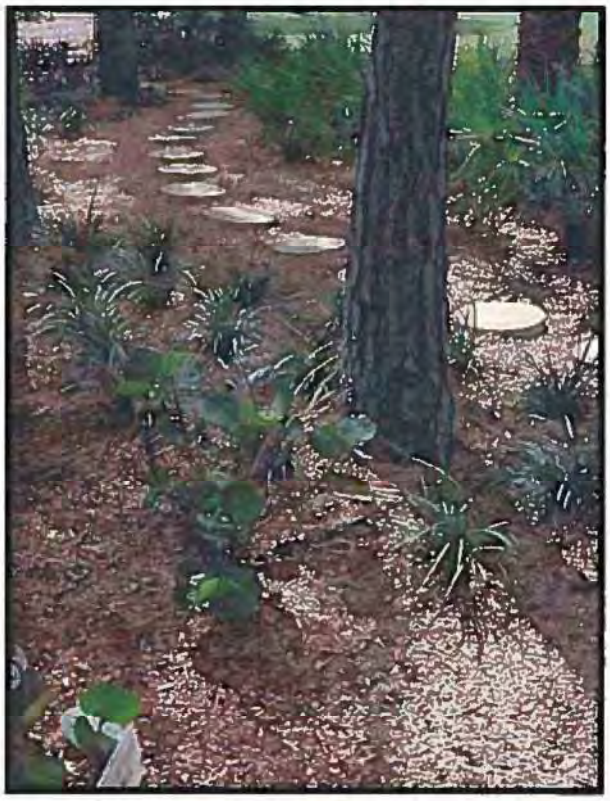
Site Design & Landscape Planning SD-10



Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- ☑ Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Each project site possesses unique topographic, hydrologic, and vegetative features, some of which are more suitable for development than others. Integrating and incorporating appropriate landscape planning methodologies into the project design is the most effective action that can be done to minimize surface and groundwater contamination from stormwater.

Approach

Landscape planning should couple consideration of land suitability for urban uses with consideration of community goals and projected growth. Project plan designs should conserve natural areas to the extent possible, maximize natural water storage and infiltration opportunities, and protect slopes and channels.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment.

Design Considerations

Design requirements for site design and landscapes planning should conform to applicable standards and specifications of agencies with jurisdiction and be consistent with applicable General Plan and Local Area Plan policies.

Designing New Installations

Begin the development of a plan for the landscape unit with attention to the following general principles:

- Formulate the plan on the basis of clearly articulated community goals. Carefully identify conflicts and choices between retaining and protecting desired resources and community growth.
- Map and assess land suitability for urban uses. Include the following landscape features in the assessment: wooded land, open unwooded land, steep slopes, erosion-prone soils, foundation suitability, soil suitability for waste disposal, aquifers, aquifer recharge areas, wetlands, floodplains, surface waters, agricultural lands, and various categories of urban land use. When appropriate, the assessment can highlight outstanding local or regional resources that the community determines should be protected (e.g., a scenic area, recreational area, threatened species habitat, farmland, fish run). Mapping and assessment should recognize not only these resources but also additional areas needed for their sustenance.

Project plan designs should conserve natural areas to the extent possible, maximize natural water storage and infiltration opportunities, and protect slopes and channels.

Conserve Natural Areas during Landscape Planning

If applicable, the following items are required and must be implemented in the site layout during the subdivision design and approval process, consistent with applicable General Plan and Local Area Plan policies:

- Cluster development on least-sensitive portions of a site while leaving the remaining land in a natural undisturbed condition.
- Limit clearing and grading of native vegetation at a site to the minimum amount needed to build lots, allow access, and provide fire protection.
- Maximize trees and other vegetation at each site by planting additional vegetation, clustering tree areas, and promoting the use of native and/or drought tolerant plants.
- Promote natural vegetation by using parking lot islands and other landscaped areas.
- Preserve riparian areas and wetlands.

Maximize Natural Water Storage and Infiltration Opportunities Within the Landscape Unit

- Promote the conservation of forest cover. Building on land that is already deforested affects basin hydrology to a lesser extent than converting forested land. Loss of forest cover reduces interception storage, detention in the organic forest floor layer, and water losses by evapotranspiration, resulting in large peak runoff increases and either their negative effects or the expense of countering them with structural solutions.
- Maintain natural storage reservoirs and drainage corridors, including depressions, areas of permeable soils, swales, and intermittent streams. Develop and implement policies and

regulations to discourage the clearing, filling, and channelization of these features. Utilize them in drainage networks in preference to pipes, culverts, and engineered ditches.

- Evaluating infiltration opportunities by referring to the stormwater management manual for the jurisdiction and pay particular attention to the selection criteria for avoiding groundwater contamination, poor soils, and hydrogeological conditions that cause these facilities to fail. If necessary, locate developments with large amounts of impervious surfaces or a potential to produce relatively contaminated runoff away from groundwater recharge areas.

Protection of Slopes and Channels during Landscape Design

- Convey runoff safely from the tops of slopes.
- Avoid disturbing steep or unstable slopes.
- Avoid disturbing natural channels.
- Stabilize disturbed slopes as quickly as possible.
- Vegetate slopes with native or drought tolerant vegetation.
- Control and treat flows in landscaping and/or other controls prior to reaching existing natural drainage systems.
- Stabilize temporary and permanent channel crossings as quickly as possible, and ensure that increases in run-off velocity and frequency caused by the project do not erode the channel.
- Install energy dissipaters, such as riprap, at the outlets of new storm drains, culverts, conduits, or channels that enter unlined channels in accordance with applicable specifications to minimize erosion. Energy dissipaters shall be installed in such a way as to minimize impacts to receiving waters.
- Line on-site conveyance channels where appropriate, to reduce erosion caused by increased flow velocity due to increases in tributary impervious area. The first choice for linings should be grass or some other vegetative surface, since these materials not only reduce runoff velocities, but also provide water quality benefits from filtration and infiltration. If velocities in the channel are high enough to erode grass or other vegetative linings, riprap, concrete, soil cement, or geo-grid stabilization are other alternatives.
- Consider other design principles that are comparable and equally effective.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Redevelopment may present significant opportunity to add features which had not previously been implemented. Examples include incorporation of depressions, areas of permeable soils, and swales in newly redeveloped areas. While some site constraints may exist due to the status of already existing infrastructure, opportunities should not be missed to maximize infiltration, slow runoff, reduce impervious areas, disconnect directly connected impervious areas.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Stormwater Management Manual for Western Washington, Washington State Department of Ecology, August 2001.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Roof Runoff Controls SD-11

Rain Garden

Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Description

Various roof runoff controls are available to address stormwater that drains off rooftops. The objective is to reduce the total volume and rate of runoff from individual lots, and retain the pollutants on site that may be picked up from roofing materials and atmospheric deposition. Roof runoff controls consist of directing the roof runoff away from paved areas and mitigating flow to the storm drain system through one of several general approaches: cisterns or rain barrels; dry wells or infiltration trenches; pop-up emitters, and foundation planting. The first three approaches require the roof runoff to be contained in a gutter and downspout system. Foundation planting provides a vegetated strip under the drip line of the roof.

Approach

Design of individual lots for single-family homes as well as lots for higher density residential and commercial structures should consider site design provisions for containing and infiltrating roof runoff or directing roof runoff to vegetative swales or buffer areas. Retained water can be reused for watering gardens, lawns, and trees. Benefits to the environment include reduced demand for potable water used for irrigation, improved stormwater quality, increased groundwater recharge, decreased runoff volume and peak flows, and decreased flooding potential.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment.

Design Considerations

Designing New Installations

Cisterns or Rain Barrels

One method of addressing roof runoff is to direct roof downspouts to cisterns or rain barrels. A cistern is an above ground storage vessel with either a manually operated valve or a permanently open outlet. Roof runoff is temporarily stored and then released for irrigation or infiltration between storms. The number of rain

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barrels needed is a function of the rooftop area. Some low impact developers recommend that every house have at least 2 rain barrels, with a minimum storage capacity of 1000 liters. Roof barrels serve several purposes including mitigating the first flush from the roof which has a high volume, amount of contaminants, and thermal load. Several types of rain barrels are commercially available. Consideration must be given to selecting rain barrels that are vector proof and childproof. In addition, some barrels are designed with a bypass valve that filters out grit and other contaminants and routes overflow to a soak-away pit or rain garden.

If the cistern has an operable valve, the valve can be closed to store stormwater for irrigation or infiltration between storms. This system requires continual monitoring by the resident or grounds crews, but provides greater flexibility in water storage and metering. If a cistern is provided with an operable valve and water is stored inside for long periods, the cistern must be covered to prevent mosquitoes from breeding.

A cistern system with a permanently open outlet can also provide for metering stormwater runoff. If the cistern outlet is significantly smaller than the size of the downspout inlet (say ¼ to ½ inch diameter), runoff will build up inside the cistern during storms, and will empty out slowly after peak intensities subside. This is a feasible way to mitigate the peak flow increases caused by rooftop impervious land coverage, especially for the frequent, small storms.

Dry wells and Infiltration Trenches

Roof downspouts can be directed to dry wells or infiltration trenches. A dry well is constructed by excavating a hole in the ground and filling it with an open graded aggregate, and allowing the water to fill the dry well and infiltrate after the storm event. An underground connection from the downspout conveys water into the dry well, allowing it to be stored in the voids. To minimize sedimentation from lateral soil movement, the sides and top of the stone storage matrix can be wrapped in a permeable filter fabric, though the bottom may remain open. A perforated observation pipe can be inserted vertically into the dry well to allow for inspection and maintenance.

In practice, dry wells receiving runoff from single roof downspouts have been successful over long periods because they contain very little sediment. They must be sized according to the amount of rooftop runoff received, but are typically 4 to 5 feet square, and 2 to 3 feet deep, with a minimum of 1-foot soil cover over the top (maximum depth of 10 feet).

To protect the foundation, dry wells must be set away from the building at least 10 feet. They must be installed in solids that accommodate infiltration. In poorly drained soils, dry wells have very limited feasibility.

Infiltration trenches function in a similar manner and would be particularly effective for larger roof areas. An infiltration trench is a long, narrow, rock-filled trench with no outlet that receives stormwater runoff. These are described under Treatment Controls.

Pop-up Drainage Emitter

Roof downspouts can be directed to an underground pipe that daylights some distance from the building foundation, releasing the roof runoff through a pop-up emitter. Similar to a pop-up irrigation head, the emitter only opens when there is flow from the roof. The emitter remains flush to the ground during dry periods, for ease of lawn or landscape maintenance.

Foundation Planting

Landscape planting can be provided around the base to allow increased opportunities for stormwater infiltration and protect the soil from erosion caused by concentrated sheet flow coming off the roof. Foundation plantings can reduce the physical impact of water on the soil and provide a subsurface matrix of roots that encourage infiltration. These plantings must be sturdy enough to tolerate the heavy runoff sheet flows, and periodic soil saturation.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Supplemental Information

Examples

- City of Ottawa's Water Links Surface –Water Quality Protection Program
- City of Toronto Downspout Disconnection Program
- City of Boston, MA, Rain Barrel Demonstration Program

Other Resources

Hager, Marty Catherine, Stormwater, "Low-Impact Development", January/February 2003. www.stormh2o.com

Low Impact Urban Design Tools, Low Impact Development Design Center, Beltsville, MD. www.lid-stormwater.net

Start at the Source, Bay Area Stormwater Management Agencies Association, 1999 Edition

Efficient Irrigation SD-12

Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Irrigation water provided to landscaped areas may result in excess irrigation water being conveyed into stormwater drainage systems.

Approach

Project plan designs for development and redevelopment should include application methods of irrigation water that minimize runoff of excess irrigation water into the stormwater conveyance system.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Designing New Installations

The following methods to reduce excessive irrigation runoff should be considered, and incorporated and implemented where determined applicable and feasible by the Permittee:

- Employ rain-triggered shutoff devices to prevent irrigation after precipitation.
- Design irrigation systems to each landscape area's specific water requirements.
- Include design featuring flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines.
- Implement landscape plans consistent with County or City water conservation resolutions, which may include provision of water sensors, programmable irrigation times (for short cycles), etc.

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- Design timing and application methods of irrigation water to minimize the runoff of excess irrigation water into the storm water drainage system.
- Group plants with similar water requirements in order to reduce excess irrigation runoff and promote surface filtration. Choose plants with low irrigation requirements (for example, native or drought tolerant species). Consider design features such as:
  - Using mulches (such as wood chips or bar) in planter areas without ground cover to minimize sediment in runoff
  - Installing appropriate plant materials for the location, in accordance with amount of sunlight and climate, and use native plant materials where possible and/or as recommended by the landscape architect
  - Leaving a vegetative barrier along the property boundary and interior watercourses, to act as a pollutant filter, where appropriate and feasible
  - Choosing plants that minimize or eliminate the use of fertilizer or pesticides to sustain growth
- Employ other comparable, equally effective methods to reduce irrigation water runoff.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Storm Drain Signage SD-13

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Waste materials dumped into storm drain inlets can have severe impacts on receiving and ground waters. Posting notices regarding discharge prohibitions at storm drain inlets can prevent waste dumping. Storm drain signs and stencils are highly visible source controls that are typically placed directly adjacent to storm drain inlets.

Approach

The stencil or affixed sign contains a brief statement that prohibits dumping of improper materials into the urban runoff conveyance system. Storm drain messages have become a popular method of alerting the public about the effects of and the prohibitions against waste disposal.

Suitable Applications

Stencils and signs alert the public to the destination of pollutants discharged to the storm drain. Signs are appropriate in residential, commercial, and industrial areas, as well as any other area where contributions or dumping to storm drains is likely.

Design Considerations

Storm drain message markers or placards are recommended at all storm drain inlets within the boundary of a development project. The marker should be placed in clear sight facing toward anyone approaching the inlet from either side. All storm drain inlet locations should be identified on the development site map.

Designing New Installations

The following methods should be considered for inclusion in the project design and show on project plans:

- Provide stenciling or labeling of all storm drain inlets and catch basins, constructed or modified, within the project area with prohibitive language. Examples include "NO DUMPING

– DRAINS TO OCEAN" and/or other graphical icons to discourage illegal dumping.

- Post signs with prohibitive language and/or graphical icons, which prohibit illegal dumping at public access points along channels and creeks within the project area.

Note - Some local agencies have approved specific signage and/or storm drain message placards for use. Consult local agency stormwater staff to determine specific requirements for placard types and methods of application.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. If the project meets the definition of "redevelopment", then the requirements stated under " designing new installations" above should be included in all project design plans.

Additional Information

Maintenance Considerations

- Legibility of markers and signs should be maintained. If required by the agency with jurisdiction over the project, the owner/operator or homeowner's association should enter into a maintenance agreement with the agency or record a deed restriction upon the property title to maintain the legibility of placards or signs.

Placement

- Signage on top of curbs tends to weather and fade.
- Signage on face of curbs tends to be worn by contact with vehicle tires and sweeper brooms.

Supplemental Information

Examples

- Most MS4 programs have storm drain signage programs. Some MS4 programs will provide stencils, or arrange for volunteers to stencil storm drains as part of their outreach program.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

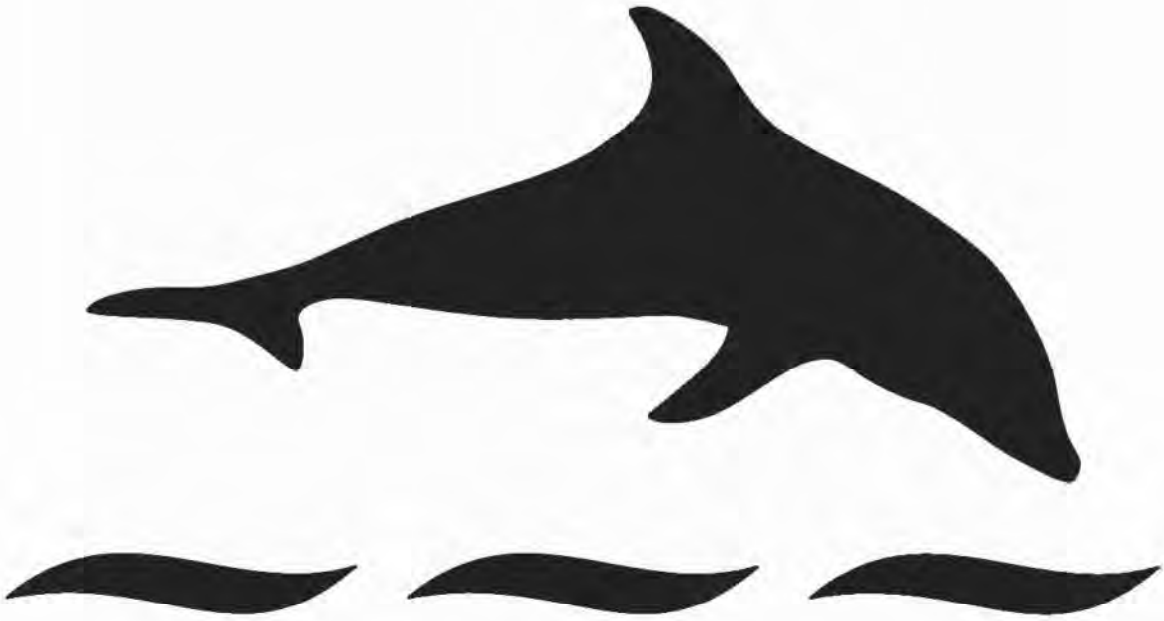
Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Sample Stencil 1

NO DUMPING



DRAINS TO OCEAN

Sample Stencil 2

Maintenance Bays & Docks SD-31

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- ☑ Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Description

Several measures can be taken to prevent operations at maintenance bays and loading docks from contributing a variety of toxic compounds, oil and grease, heavy metals, nutrients, suspended solids, and other pollutants to the stormwater conveyance system.

Approach

In designs for maintenance bays and loading docks, containment is encouraged. Preventative measures include overflow containment structures and dead-end sumps. However, in the case of loading docks from grocery stores and warehouse/distribution centers, engineered infiltration systems may be considered.

Suitable Applications

Appropriate applications include commercial and industrial areas planned for development or redevelopment.

Design Considerations

Design requirements for vehicle maintenance and repair are governed by Building and Fire Codes, and by current local agency ordinances, and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code requirements.

Designing New Installations

Designs of maintenance bays should consider the following:

- Repair/maintenance bays and vehicle parts with fluids should be indoors; or designed to preclude urban run-on and runoff.
- Repair/maintenance floor areas should be paved with Portland cement concrete (or equivalent smooth impervious surface).

- Repair/maintenance bays should be designed to capture all wash water leaks and spills. Provide impermeable berms, drop inlets, trench catch basins, or overflow containment structures around repair bays to prevent spilled materials and wash-down waters form entering the storm drain system. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.
- Other features may be comparable and equally effective.

The following designs of loading/unloading dock areas should be considered:

- Loading dock areas should be covered, or drainage should be designed to preclude urban run-on and runoff.
- Direct connections into storm drains from depressed loading docks (truck wells) are prohibited.
- Below-grade loading docks from grocery stores and warehouse/distribution centers of fresh food items should drain through water quality inlets, or to an engineered infiltration system, or an equally effective alternative. Pre-treatment may also be required.
- Other features may be comparable and equally effective.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Stormwater and non-stormwater will accumulate in containment areas and sumps with impervious surfaces. Contaminated accumulated water must be disposed of in accordance with applicable laws and cannot be discharged directly to the storm drain or sanitary sewer system without the appropriate permit.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Trash Storage Areas SD-32

Description

Trash storage areas are areas where a trash receptacle (s) are located for use as a repository for solid wastes. Stormwater runoff from areas where trash is stored or disposed of can be polluted. In addition, loose trash and debris can be easily transported by water or wind into nearby storm drain inlets, channels, and/or creeks. Waste handling operations that may be sources of stormwater pollution include dumpsters, litter control, and waste piles.

Approach

This fact sheet contains details on the specific measures required to prevent or reduce pollutants in stormwater runoff associated with trash storage and handling. Preventative measures including enclosures, containment structures, and impervious pavements to mitigate spills, should be used to reduce the likelihood of contamination.

Design Objectives

- Maximize Infiltration
- Provide Retention
- Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- ☑ Contain Pollutants
- Collect and Convey

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Design requirements for waste handling areas are governed by Building and Fire Codes, and by current local agency ordinances and zoning requirements. The design criteria described in this fact sheet are meant to enhance and be consistent with these code and ordinance requirements. Hazardous waste should be handled in accordance with legal requirements established in Title 22, California Code of Regulation.

Wastes from commercial and industrial sites are typically hauled by either public or commercial carriers that may have design or access requirements for waste storage areas. The design criteria in this fact sheet are recommendations and are not intended to be in conflict with requirements established by the waste hauler. The waste hauler should be contacted prior to the design of your site trash collection areas. Conflicts or issues should be discussed with the local agency.

Designing New Installations

Trash storage areas should be designed to consider the following structural or treatment control BMPs:

- Design trash container areas so that drainage from adjoining roofs and pavement is diverted around the area(s) to avoid run-on. This might include berming or grading the waste handling area to prevent run-on of stormwater.
- Make sure trash container areas are screened or walled to prevent off-site transport of trash.

- Use lined bins or dumpsters to reduce leaking of liquid waste.
- Provide roofs, awnings, or attached lids on all trash containers to minimize direct precipitation and prevent rainfall from entering containers.
- Pave trash storage areas with an impervious surface to mitigate spills.
- Do not locate storm drains in immediate vicinity of the trash storage area.
- Post signs on all dumpsters informing users that hazardous materials are not to be disposed of therein.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Additional Information

Maintenance Considerations

The integrity of structural elements that are subject to damage (i.e., screens, covers, and signs) must be maintained by the owner/operator. Maintenance agreements between the local agency and the owner/operator may be required. Some agencies will require maintenance deed restrictions to be recorded of the property title. If required by the local agency, maintenance agreements or deed restrictions must be executed by the owner/operator before improvement plans are approved.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Bioretention TC-32

General Description

The bioretention best management practice (BMP) functions as a soil and plant-based filtration device that removes pollutants through a variety of physical, biological, and chemical treatment processes. These facilities normally consist of a grass buffer strip, sand bed, ponding area, organic layer or mulch layer, planting soil, and plants. The runoff's velocity is reduced by passing over or through a sand bed and is subsequently distributed evenly along a ponding area. Exfiltration of the stored water in the bioretention area planting soil into the underlying soils occurs over a period of days.

Inspection/Maintenance Considerations

Bioretention requires monthly landscaping maintenance, including measures to ensure that the area is functioning properly and irrigation during dry periods. In many cases, bioretention areas initially require intense maintenance, but less maintenance is needed over time. Maintenance tasks may be conducted by a landscaping contractor, who may already be hired at the site.

Sediment may enter the bioretention cell and form a crust on the soil surface, limiting the porosity of the soil. Raking of the mulch and soil surface may be needed to maintain high infiltration rates. In cold climates the soil may freeze, preventing runoff from infiltrating into the planting soil.

Bioretention systems can become a nuisance due to mosquito and midge breeding. Maintaining soil porosity and basic housekeeping practices such as removal of debris accumulations and vegetation management are necessary to ensure that the system dewaters completely (recommended 72 hour residence time or less) to prevent creating mosquito and other vector habitats.

Advanced BMPs Covered

Maintenance Concerns

- *Clogged Soil or Outlet Structures*
- *Sediment Accumulation*
- *Invasive Species Management*
- *Vegetation/Landscape Maintenance*
- *Erosion*
- *Channelization of Flow*
- *Vector Control*
- *Aesthetics*

Targeted Constituents

Sediment	■
Nutrients	▲
Trash	■
Metals	■
Bacteria	■
Oil and Grease	■
Organics	■

Legend (Removal Effectiveness)

● Low ■ High ▲ Medium

✱ Requires Pretreatment

Note: The removal effectiveness ratings shown in the table are for properly designed, sited, and maintained BMPs; some configurations will have variations in pollutant effectiveness.

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Inspection Activities	Suggested Frequency
☐ Inspect soil and repair eroded areas.	Monthly
☐ Inspect for erosion or damage to vegetation, preferably at the end of the wet season to schedule summer maintenance and before major fall runoff to be sure the strips are ready for winter. However, additional inspection after periods of heavy runoff is desirable.	Semi-annual inspection
☐ Inspect to ensure vegetation is well established. If not, either prepare soil and reseed or replace with alternative species. Install erosion control blanket. ☐ Check for debris and litter, and areas of sediment accumulation. ☐ Inspect health of trees and shrubs.	
Maintenance Activities	**Suggested Frequency**
☐ Water plants daily for 2 weeks.	At project completion
☐ Remove litter and debris.	Monthly
☐ Remove sediment. ☐ Remulch void areas. ☐ Irrigate during dry periods. ☐ Treat diseased trees and shrubs. ☐ Mow turf areas. ☐ Repair erosion at inflow points. ☐ Repair outflow structures. ☐ Unclog underdrain. ☐ Regulate soil pH. ☐ Make structural changes or repairs as needed to eliminate pools of water that stand longer than 96 hrs to prevent mosquito production, particularly during the warmer months of the year. Identify and eliminate sources of non-stormwater runoff that feed standing water pools. Coordinate with the local mosquito and vector control agency to control mosquitoes, if necessary.	As needed
☐ Remove and replace dead and diseased vegetation.	Semi-annual
☐ Add mulch. ☐ Replace tree stakes and wires.	Annual
☐ Mulch should be replaced every 2 to 3 years or when bare spots appear or infiltration rates are reduced. Remulch prior to the wet season.	Every 2-3 years, or as needed

Additional Information

Landscaping is critical to the function and aesthetic value of bioretention areas. It is preferable to plant the area with native vegetation, or plants that provide habitat value, where possible. Another important design feature is to select species that can withstand the hydrologic regime they will experience. At the bottom of the bioretention facility, plants that tolerate both wet and dry conditions are preferable. At the edges, which will remain primarily dry, upland species will be the most resilient. It is best to select a combination of trees, shrubs, and herbaceous materials.

For areas with low permeability native soils or steep slopes, bioretention areas can be designed with an underdrain system that routes the treated runoff to the storm drain system rather than depending entirely on infiltration.

Special considerations are required for bioretention to be effective in cold climates – see the Stormwater Managers Resource Center for more information.

References

California Stormwater Quality Association. *Stormwater Best Management Practice Handbook, New Development and Redevelopment,* 2003. Available online at: https://www.casqa.org/resources/bmp-handbooks/new-development-redevelopment-bmp-handbook.

Riverside County Flood Control and Water Conservation District. *Riverside County Design Handbook for Low Impact Development Best Management Practices,* 2011, Available online at: http://rcflood.org/downloads/NPDES/Documents/LIDManual/LID_BMP_Design_Handbook.pdf,

San Francisco Public Utilities Commission, et al. San Francisco Stormwater Design Guidelines. Appendix A, Stormwater BMP Fact Sheets, 2010. Available online at: http://www.sfwater.org/modules/showdocument.aspx?documentid=2778.

Stormwater Managers Resource Center. http://www.stormwatercenter.net.

Stormwater Mangers Resource Center, Stormwater Practices for Cold Climates. http://www.stormwatercenter.net/Cold%20Climates/cold-climates.htm.

U.S. Environmental Protection Agency, Post-Construction Stormwater Management in New Development and Redevelopment. BMP Fact Sheets. Available online at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=5.

Ventura Countywide Stormwater Quality Management Program. *Technical Guidance Manual for Stormwater Quality Control Measures*, 2010. Available online at: http://www.vcstormwater.org/documents/workproducts/technicalguidancemanual/201orevisions/Ventura%20Technical%20Guidance%20Document_5-6-10.pdf.

Watershed Management Institute, Inc. *Operation, Maintenance, and Management of Stormwater Management Systems* 1997. Available online at: http://www.stormwater.ucf.edu/research/stormwaterOMM/stormwateromm.pdf.

Drain Inlet Insert MP-52

General Description

Drain inlet inserts, also known as catch basin, drop inlet or curb inlet inserts, are used to remove pollutants at the point of entry to the storm drain system. There are a multitude of inserts of various shapes and configurations including baffles, baskets, boxes, fabrics, sorbent media, screens, and skimmers. The effectiveness of drain inlet inserts depends on their design, application, loading, and frequency of maintenance to remove accumulated sediment, trash, and debris.

Inspection/Maintenance Considerations

Routine inspection and maintenance is necessary to maintain functionality of drain inlet inserts and to prevent re-suspension and discharge of accumulated pollutants. Maintenance activities vary depending on the type of drain inlet insert being implemented; refer to the manufacturer's recommendations for more information.

Advanced BMPs Covered

Maintenance Concerns

- *Sediment, Trash, and Debris Accumulations*
- *Pollutant Re-suspension and Discharge*

Targeted Constituents*

Sediment	✓
Nutrients	✓
Trash	✓
Metals	✓
Bacteria	
Oil and Grease	✓
Organics	✓

**Removal Effectiveness varies for different manufacturer designs. See New Development and Redevelopment Handbook-Section 5 for more information.*

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Inspection Activities	Suggested Frequency
☐ Verify that stormwater enters the unit and does not leak around the perimeter.	After construction.
☐ Inspect for sediment, trash, and debris buildup and proper functioning.	At the beginning of the wet season and after significant storms
Maintenance Activities	**Suggested Frequency**
☐ Remove accumulated sediment, trash, and debris. ☐ Replace sorbent media.	At the beginning of the wet season and as necessary

References

California Department of Transportation. *Treatment BMP Technology Report (CTSW-RT-09-239.06),* April, 2010. http://www.dot.ca.gov/hq/env/stormwater/pdf/CTSW-RT-09-239-06.pdf.

California Stormwater Quality Association. *Stormwater Best Management Practice Handbook, New Development and Redevelopment*, 2003. https://www.casqa.org/resources/bmp-handbooks/new-development-redevelopment-bmp-handbook.

Orange County Stormwater Program. Technical Guidance Document BMP Fact Sheets. http://media.ocgov.com/gov/pw/watersheds/documents/wqmp/tgd/technical_guidance_document_bmp_fact_sheets.asp.

San Francisco Public Utilities Commission, et al. San Francisco Stormwater Design Guidelines. Appendix A, Stormwater BMP Fact Sheets, June, 2010. http://www.sfwater.org/modules/showdocument.aspx?documentid=2778.

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U.S. Environmental Protection Agency, Post-Construction Stormwater Management in New Development and Redevelopment. BMP Fact Sheets. Available at: http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm?action=min_measure&min_measure_id=5.

Ventura Countywide Stormwater Quality Management Program. *Technical Guidance Manual for Stormwater Quality Control Measures*, May, 2010. http://www.vcstormwater.org/documents/workproducts/technicalguidancemanual/2010revisions/Ventura%20Technical%20Guidance%20Document_5-6-10.pdf.

STORMWATER Pollution Prevention

CONSTRUCTION

Cement wash, sediment, vehicle fluids, dust and hazardous debris from construction sites often make their way into the San Bernardino County storm drain system and do not get treated before reaching the Santa Ana River. This pollutes our drinking water and contaminates waterways, making them unsafe for people and wildlife. Follow these best management practices to prevent pollution and protect public health.

Store Materials Safely

Keep construction materials and debris away from the street, gutter and storm drains. Cover exposed stockpiles of soil, sand or gravel and excavated material with plastic sheeting, protected from rain, wind and runoff.

Ordering Materials & Recycling Waste

Reduce waste by ordering only the amounts of materials needed for the job. Use recycled or recyclable materials whenever possible. You can recycle broken asphalt, concrete, wood, and cleared vegetation. Non-recyclable materials should be taken to a landfill or disposed of as hazardous waste. For recycling and disposal information, call (909) 386-8401.

Cleaning & Preventing Spills

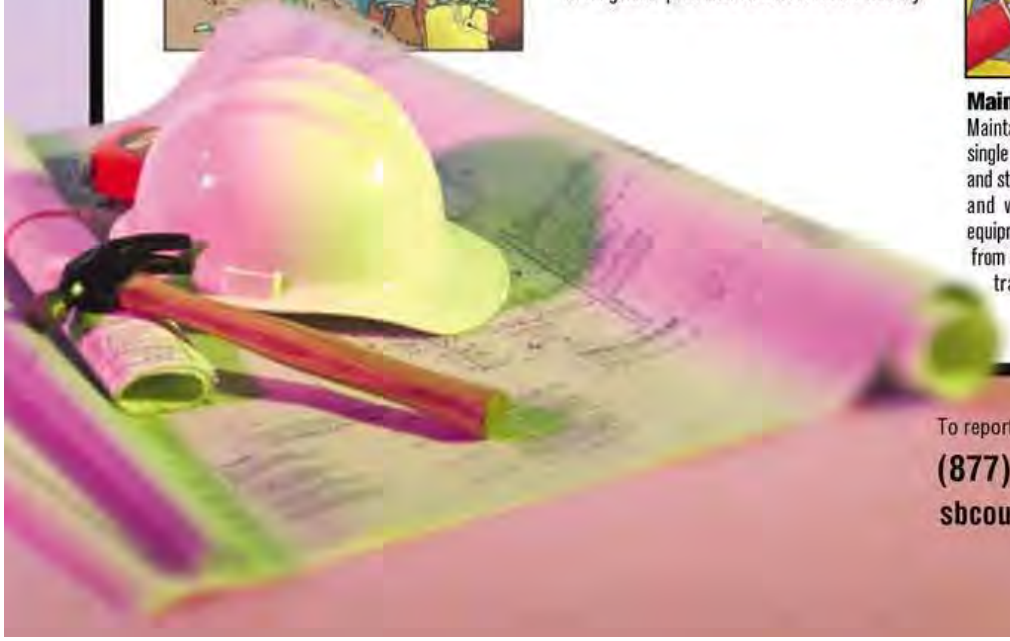
Use a drip pan and funnel when draining or pouring fluids. Sweep up dry spills, instead of hosing. Be ready for spills by preparing and using spill containment and cleanup kits that include safety equipment and dry cleanup materials such as kitty litter or sawdust. To report serious spills, call 911.

Preventing Erosion

Avoid excavation or grading during wet weather. Plant temporary vegetation or add hydromulch on slopes where construction is not immediately planned, and permanent vegetation once excavation and grading are complete. Construct diversion dikes to channel runoff to a detention basin and around the construction site. Channels can be lined with grass or roughened pavement to reduce runoff velocity.

Maintaining Vehicles & Equipment

Maintain and refuel vehicles and equipment at a single location on-site, away from the street, gutter and storm drains. Perform major equipment repairs and washings off-site. Inspect vehicles and equipment frequently for leaks, and prevent leaks from stored vehicles by draining gas, hydraulic oil, transmission, brake and radiator fluids.



To report illegal dumping call

(877) WASTE18

sbcountystormwater.org

San Bernardino County STORMWATER PROGRAM

STORMWATER Pollution Prevention

EXCAVATION AND GRADING

Sediment, cement wash, asphalt and vehicle fluids from soil excavation and grading often make their way into the San Bernardino County storm drain system and do not get treated before reaching the Santa Ana River. This pollutes our drinking water and contaminates waterways, making them unsafe for people and wildlife. Follow these best management practices to prevent pollution and protect public health.

Recycling Waste

Recycle broken asphalt, concrete, wood, and cleared vegetation whenever possible. Non-recyclable materials should be taken to a landfill or disposed of as hazardous waste. For recycling and disposal information, call (909) 386-8401.

Maintaining Vehicles & Equipment

Maintain and refuel vehicles and equipment at a single location on-site, away from the street, gutters and storm drains. Perform major equipment repairs and washings off-site. Inspect vehicles and equipment frequently for leaks. Use gravel approaches where truck traffic is heavy to reduce soil compaction and limit the tracking of sediment into the street.

Cleaning & Preventing Spills

Use a drip pan and funnel when draining or pouring fluids. Sweep up dry spills, instead of hosing. Be ready for spills by preparing and using spill containment and cleanup kits that include safety equipment and dry cleanup materials such as kitty litter or sawdust. Prevent leaks from stored vehicles by draining gas, hydraulic oil, transmission, brake and radiator fluids. To report serious spills, call 911.

Storing Materials

Keep construction materials and debris away from the street, gutter and storm drains. Cover exposed stockpiles of soil, sand or gravel and excavated material with plastic sheeting, protected from rain, wind and runoff.

Preventing Erosion

Avoid excavation or grading during wet weather. Plant temporary vegetation on slopes where construction is not immediately planned, and permanent vegetation once excavation and grading are complete. Construct diversion dikes to channel runoff. Channels can be lined with grass or roughened pavement to reduce runoff velocity.

To report illegal dumping call

(877) WASTE18

sbcountystormwater.org

San Bernardino County STORMWATER PROGRAM

STORMWATER Pollution Prevention

FRESH CONCRETE & MORTAR APPLICATION

Cement wash, sediment, vehicle fluids, dust and hazardous debris from construction sites often make their way into the San Bernardino County storm drain system and do not get treated before reaching the Santa Ana River. This pollutes our drinking water and contaminates waterways, making them unsafe for people and wildlife. Follow these best management practices to prevent pollution and protect public health.

Storing Materials

Keep construction materials and debris away from the street, gutter and storm drains. Secure open bags of cement and cover exposed stockpiles of soil, sand or gravel and excavated material with plastic sheeting, protected from rain, wind and runoff.

Ordering Materials & Recycling Waste

Reduce waste by ordering only the amounts of materials needed for the job. Use recycled or recyclable materials whenever possible. When breaking up paving, recycle the pieces at a crushing company. You can also recycle broken asphalt, concrete, wood, and cleared vegetation. Non-recyclable materials should be taken to a landfill or disposed of as hazardous waste. Call (909) 386-8401 for recycling and disposal information.

During Construction

Schedule excavation and grading during dry weather. Prevent mortar and cement from entering the street and storm drains by placing erosion controls. Setup small mixers on tarps or drop cloths, for easy cleanup of debris. Never bury waste material. Recycle or dispose of it as hazardous waste.

Cleaning Up

Wash concrete dust onto designated dirt areas, not down driveways or into the street or storm drains. Wash out concrete mixers and equipment in specified washout areas, where water can flow into a containment pond. Cement washwater can be recycled by pumping it back into cement mixers for reuse. Never dispose of cement washout into driveways, streets, gutters, storm drains or drainage ditches.

To report illegal dumping call

(877) WASTE18

sbcountystormwater.org

San Bernardino County STORMWATER PROGRAM

SAN BERNARDINO COUNTY
STORMWATER POLLUTION PREVENTION

General industrial & manufacturing businesses:

If you own, manage or help operate a business, especially an industrial or manufacturing company, you can help reduce storm water pollution. From environmentally friendly cleaning and maintenance activities, to recycling hazardous waste materials, businesses can do a lot to prevent storm water pollution.

- Review your cleaning and maintenance activities to look for ways to reduce runoff into the storm drain system, especially in outdoor areas like parking lots, loading docks and maintenance yards. Keep trash enclosure swept and trash bin lids closed.
- Train employees to wash vehicles and equipment indoors in a wash rack that is connected to the sanitary sewer or off-site at a commercial wash facility. Train janitorial staff to dispose of floor cleaning water in the sewer and not into the parking lot. Make sure that cooling towers, boilers, compressors, water softeners and other process equipment are connected to the sanitary sewer and do not discharge wastewater into the parking lot.
- If you use hazardous materials in your everyday business, like ink and solvents for commercial printing, or polishes and chemicals for car detailing or manufacturing after-market accessories, do not put these hazardous materials in the trash or pour them into the gutter. Take them to be recycled safely. Store chemicals, wastes, raw materials and contaminated equipment indoors or in a covered, spill contained area, to prevent exposure of these materials to storm water. For information on proper hazardous waste disposal, call (909)386-8401.
- Take advantage of less-toxic alternatives to dangerous chemicals. From detergents to drain openers, there are a lot of ways to get the same or better result without having to rely toxic substances.
- Looking for raw materials? San Bernardino County Materials Exchange Program, or SBCoMax is a partnership between the County and the California Integrated Waste Management Board, for businesses to provide used but usable materials to those interested in obtaining them. The program helps divert used materials from landfills, saves resources and can save you money.

For more information about how you can prevent stormwater pollution:

www.sbcountystormwater.org

SAN BERNARDINO COUNTY
STORMWATER POLLUTION PREVENTION

Commercial landscape maintenance:

Yard waste, sediments and toxic lawn and garden chemicals used in commercial landscape maintenance often make their way into the San Bernardino County storm drain system and do not get treated before reaching the Santa Ana River. This pollutes our drinking water and contaminates local waterways, making them unsafe for people and wildlife. Follow these best management practices to prevent pollution, protect public health and avoid fines or legal action.

- **Recycle Yard Waste:** Recycle leaves, grass clippings and other yard waste. Do not blow, sweep, rake or hose yard waste into the street. Let your customers know about grass cycling --the natural recycling of grass by leaving clippings on the lawn when mowing instead of using a grass catcher. Grass clippings will quickly decompose, returning valuable nutrients to the soil. You can get more information at www.ciwmb.ca.gov/Organics.
- **Use Fertilizers, Herbicides & Pesticides Safely:** Fertilizers, herbicides and pesticides are often carried into the storm drain system by sprinkler runoff. Use natural, non-toxic alternatives to traditional garden chemicals. If you must use chemical fertilizers, herbicides, or pesticides spot apply rather than blanketing entire areas, avoid applying near curbs and driveways and never apply before a rain.
- **Recycle Hazardous Waste:** Pesticides, fertilizers, herbicides and motor oil contaminate landfills and should be disposed of through a Hazardous Waste Facility. For information on proper disposal, call (909) 386-8401.
- **Use Water Wisely:** Conserve water and prevent runoff by controlling the amount of water and direction of sprinklers. Sprinklers should be on long enough to allow water to soak into the ground but not so long as to cause runoff. Periodically inspect, fix leaks and realign sprinkler heads.
- **Planting:** Plant native vegetation to reduce the need of water, fertilizers, herbicides and pesticides.
- **Prevent Erosion:** Erosion washes sediments, debris and toxic runoff into the storm drain system, polluting waterways. Prevent erosion and sediment runoff by using ground cover, berms and vegetation down-slope to capture runoff. Avoid excavation or grading during wet weather.
- **Store Materials Safely:** Keep landscaping materials and debris away from the street, gutter and storm drains. On-site stockpiles of materials should be covered with plastic sheeting to protect from rain, wind and runoff.

For more information about how you can prevent stormwater pollution:

www.sbcountystormwater.org

LANDSCAPE MAINTENANCE

DISCHARGE TO THE STORM DRAIN, ACCIDENTAL OR NOT, COULD LEAD TO ENFORCEMENT ACTIONS, WHICH COULD INCLUDE FINES.

Follow the best practices below to **prevent water pollution from landscaping activities.**

RECYCLE YARD WASTE

- Recycle leaves, grass clippings and other yard waste.
- Do not blow, sweep, rake or hose yard waste into the street or catch basin.
- **Try grasscycling:** the natural recycling of grass by leaving clippings on the lawn when mowing.

  For more information, please visit: **www.calrecycle.ca.gov/organics/grasscycling**

USE FERTILIZERS, HERBICIDES AND PESTICIDES SAFELY

- Fertilizers, herbicides and pesticides are often carried into the storm drain system by sprinkler runoff. Use natural and non-toxic alternatives as often as possible.
- If you must use chemical fertilizers, herbicides or pesticides:
  - Spot apply, rather than blanketing entire areas.
  - Avoid applying near curbs and driveways, and **never** before a rain.
  - Apply fertilizers as needed: when plants could best use it and when the potential runoff would be low.
  - Follow the manufacturer's instructions carefully—this will not only give the best results, but will save money.

USE WATER WISELY

- Control the amount of water and direction of sprinklers. Sprinklers should only be on long enough to allow water to soak into the ground, but not so long as to cause runoff.
- Periodically inspect, fix leaks and realign sprinkler heads.
- Plant native vegetation to reduce the need of water, fertilizers, herbicides and pesticides.

HOMEOWNERS

KEEP THESE TIPS IN MIND WHEN HIRING PROFESSIONAL LANDSCAPERS AND REMIND AS NECESSARY.

Leftover pesticides, fertilizers, and herbicides contaminate landfills and should be disposed of through a Hazardous Waste Facility.

For more information on proper disposal call,

(909) 382-5401 or 1-800-OILY CAT.

*FREE for San Bernardino County residents only. Businesses can call for cost inquiries and to schedule an appointment.

To report illegal dumping, call (877) WASTE18 or visit sbcountystormwater.org
To report toxic spills, call 1(800) 33 TOXIC
To dispose of hazardous waste, call 1(800) OILY CAT

sbcountystormwater.org

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COMMERCIAL TRASH ENCLOSURES

FOLLOW THESE **REQUIREMENTS** TO **KEEP OUR WATERWAYS CLEAN**

Trash enclosures, such as those found in commercial and apartment complexes, typically contain materials that are intended to find their way to a landfill or a recycling facility. **These materials are NOT meant to go into our local lakes and rivers.**

PROTECT WATER QUALITY BY FOLLOWING THESE SIMPLE STEPS

PUT TRASH INSIDE

Place trash inside the bin (preferably in sealed bags)

CLOSE THE LID

Prevent rain from entering the bin in order to avoid leakage of polluted water runoff

KEEP TOXICS OUT

- Paint
- Grease, fats and used oils
- Batteries, electronics and fluorescent lights

SOME ADDITIONAL GUIDELINES, INCLUDE

✓ **SWEEP FREQUENTLY**
Sweep trash enclosure areas frequently, instead of hosing them down, to prevent polluted water from flowing into the streets and storm drains.

✓ **FIX LEAKS**
Address trash bin leaks immediately by using dry clean up methods and report to your waste hauler to receive a replacement.

✓ **CONSTRUCT ROOF**
Construct a solid cover roof over the existing trash enclosure structure to prevent rainwater from coming into contact with trash and garbage. Check with your local City/County for Building Codes.

In San Bernardino County, stormwater pollution is caused by food waste, landscape waste, chemicals and other debris that are washed into storm drains and end up in our waterways - untreated! You can be part of the solution by maintaining a water-friendly trash enclosure.

THANK YOU FOR HELPING TO KEEP SAN BERNARDINO COUNTY CLEAN AND HEALTHY!

To report illegal dumping **(877-WASTE18)** or
to find a household hazardous waste facility (800-OILY CAT): **sbcountystormwater.org**
To dispose of hazardous waste call the San Bernardino County Fire Dept. - CUPA Program **(909) 386-8401**

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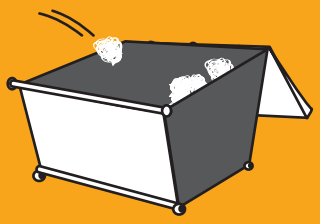
CONTENEDORES COMERCIALES PARA LA BASURA

SIGA ESTOS **PASOS** PARA MANTENER **LIMPIAS NUESTRAS VÍAS FLUVIALES**

Los contenedores de basura, tales como aquellos que se encuentran en las unidades comerciales y departamentos, generalmente contienen materiales que están destinados a los rellenos sanitarios o en algún establecimiento de reciclaje.
Estos materiales NO deben ser vertidos en nuestros lagos y ríos locales.

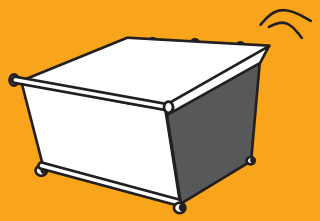
SIGA ESTOS PASOS PARA PROTEGER LA CALIDAD DEL AGUA

COLOQUE LA BASURA ADENTRO



Coloque la basura adentro del contenedor (preferentemente en bolsas selladas)

CIERRE LA TAPA



Evite que la lluvia ingrese al contenedor para evitar un escape de escorrentía contaminada

MANTENGA LOS PRODUCTOS TÓXICOS AFUERA

- Pintura
- Lubricante, grasas y aceites usados
- Baterías, componentes electrónicos y luces fluorescentes

ALGUNAS GUÍAS ADICIONALES, LAS CUALES INCLUYEN

✓ BARRER CON FRECUENCIA

Barra con frecuencia las áreas de los recintos para la basura, en lugar de lavarlas con una manguera, para evitar que el agua contaminada se vierta en las calles y los desagües de lluvia.

✓ REPARE LAS GOTERAS

Ocúpese inmediatamente de las goteras en los contenedores de basura. Use los métodos de limpieza en seco e infórmele a su recolector de basura para que reciba un reemplazo.

✓ CONSTRUYA UN TECHO

Construya un techo de cubierta sólida sobre la estructura actual del recinto para la basura a fin de evitar que el agua de lluvia entre en contacto con los desechos y la basura. Consulte a su Ciudad/Condado para conocer los Códigos de Construcción.

En el Condado de San Bernardino, los desechos de alimentos y jardines, los productos químicos y otros restos que se vierten en los desagües de aguas pluviales y que terminan en nuestras vías fluviales sin tratamiento alguno provocan la contaminación de estas aguas. Usted puede ser parte de la solución si mantiene un recinto para la basura que no contamine el agua.

¡MUCHAS GRACIAS POR AYUDAR A MANTENER LIMPIO Y SIN CONTAMINACIÓN AL CONDADO DE SAN BERNARDINO!

San Bernardino County STORMWATER PROGRAM

Para informar acerca del vertedero ilegal, llame a (877-WASTE18), o para encontrar un establecimiento donde arrojar los residuos peligrosos del hogar, llame a (800-OILY CAT): sbcountystormwater.org

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PORTABLE TOILET BUSINESSES

Prevent potential waste spills from coming into contact with our waterways:

WHEN DELIVERING

- ✓ Site Portable Toilets at least 50 feet away from a catch basin or waterway.
- ✓ In high wind areas, secure the Portable Toilets by anchoring the unit securely to the ground.
- ✓ Equip Portable Toilets with a containment tray to prevent accidental overflow.

When there is potential for greater than normal usage, **remind** your clients to **request additional units** or **adjust the service schedule** to ensure sanitary conditions and **prevent overflow**.

WHEN SERVICING

- ✓ On the service vehicle:
  - Maintain the condition of all hoses, couplings, tanks, and equipment to prevent leaks or spills.
  - Properly store and handle potential contaminants (Portable Toilet waste, disinfectants, oils,detergents etc.) to prevent any spills or discharges from entering the street, gutter or catch basin.
- ✓ When rinsing or washing Portable Toilets, ensure that all waste water is captured in the containment tray to prevent waste water from entering the street, gutter or catch basin.
- ✓ Upon completion of the cleaning process, pump the captured water into the service vehicle.

WHAT IS STORMWATER POLLUTION?

Stormwater pollution is created when bacteria, organic matter, disinfectants, and suspended solids are transported by water or wind into the catch basins and storm drain system. The untreated urban runoff then flows directly into our lakes and rivers contaminating our communities with high levels of bacteria, posing a threat to public health and wildlife.

THANK YOU FOR BEING A RESPONSIBLE BUSINESS AND HELPING TO KEEP SAN BERNARDINO COUNTY CLEAN AND HEALTHY!

In the event of a spill or discharge to a storm drain or waterway, contact San Bernardino County Stormwater immediately: **(877) WASTE18 | sbcountystormwater.org/report**
To dispose of hazardous waste call the San Bernardino County Fire Dept. - CUPA Program **(909) 386-8401**

sbcountystormwater.org

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CONTECH®
ENGINEERED SOLUTIONS

Contech® CMP Detention & Infiltration Maintenance Guide

CONTECH®
CMP DETENTION SYSTEMS

Contech® CMP Detention

Underground stormwater detention/infiltration and retention systems must be properly inspected and maintained at regular intervals for purposes of performance and longevity.

Inspection

Inspection is the key to effective maintenance and is easily performed. Contech recommends ongoing quarterly inspections. The rate at which the system collects pollutants will depend more heavily on site specific activities rather than the size or configuration of the system. Inspections should be performed more often in equipment washdown areas, in climates where sanding and/or salting operations take place, and in various other instances in which higher accumulations of sediment or abrasive / corrosive conditions may exist. Inspection and maintenance records should be maintained for the life of the system.

Maintenance

Systems should be cleaned when inspection reveals that accumulated sediment or trash is clogging the discharge orifice. Accumulated sediment and trash can typically be evacuated through the manhole over the outlet orifice. If maintenance is not performed as recommended, sediment and trash may accumulate in front of the outlet orifice. Manhole covers should be securely seated following cleaning activities. Contech suggests that all systems be designed with an access/inspection manhole situated at or near the inlet and the outlet orifice. Should it be necessary to get inside the system to perform maintenance activities, all appropriate precautions regarding confined space entry and OSHA regulations should be followed.

If inspectors observe any salt or other corrosive substance concentrations or accumulations in the system, or if salt or other corrosive substance is used or prevalent near the system, it is recommended to rinse the system above the spring line annually between late spring and early summer as part of the maintenance program. This maintenance is required for infiltration systems. Excessive salting should be avoided and pavement should be sealed to reduce salt infiltration from the surface.

Maintaining an underground detention or retention system is easiest when there is no flow entering the system. For this reason, it is a good idea to schedule the cleanout during dry weather.

The foregoing inspection and maintenance efforts help ensure underground pipe systems used for stormwater storage continue to function as intended by identifying recommended regular inspection and maintenance practices. Inspection and maintenance related to the structural integrity of the pipe or the soundness of pipe joint connections is beyond the scope of this guide.

Inspection & Maintenance Log Sample Template

_____" Diameter System			Location: Anywhere, USA		
Date	**Depth of Sediment**	**Accumulated Trash**	**Maintenance Performed**	**Maintenance Personnel**	**Comments**
12/01/10	2"	None	Removed Sediment	B. Johnson	Installed
03/01/11	1"	Some	Removed Sediment and Trash	B. Johnson	Swept parking lot
06/01/11	0"	None	None		
09/01/11	0"	Heavy	Removed Trash	S. Riley	
12/01/11	1"	None	Removed Sediment	S. Riley	
04/01/12	0"	None	None	S. Riley	
04/15/01	2	Some	Removed Sediment and Trash	ACE Environmental Services	

SAMPLE

CMP DETENTION SYSTEMS

Support

Drawings and specifications are available at www.ContechES.com.
Site-specific support is available from our engineers.

CONTECH ENGINEERED SOLUTIONS
800.338.1122
www.ContechES.com

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Contech Engineered Solutions LLC provides site solutions for the civil engineering industry. Contech's portfolio includes bridges, drainage, sanitary sewer, stormwater, earth stabilization and wastewater treatment products. For information, visit www.ContechES.com or call 800.338.1122.

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The product(s) described may be protected by one or more of the following US patents: 5,322,629; 5,624,576; 5,707,527; 5,759,415; 5,788,848; 5,985,157; 6,027,639; 6,350,374; 6,406,218; 6,641,720; 6,511,595; 6,649,048; 6,991,114; 6,998,038; 7,186,058; 7,296,692; 7,297,266; related foreign patents or other patents pending.

Attachment D

Geotechnical Report

GEOTECHNICAL INVESTIGATION
PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

1750-1780 West Foothill Boulevard
Upland, California
for
Magellan Value Partners, LLC

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

February 12, 2021

Magellan Value Partners, LLC
1900 Avenue of the Stars, Suite 2470
Los Angeles, California 90067

Attention: Mr. Somy Mukherjee
Managing Director

Project No.: 21G111-1

Subject: Geotechnical Investigation
Proposed Commercial/Industrial Development
1750-1780 West Foothill Boulevard
Upland, California

Reference: Geotechnical Investigation, Proposed Warehouse, 1780 West Foothill Boulevard, Upland, California, prepared by Southern California Geotechnical (SCG) for Oakmont Industrial Group, SCG Project No. 19G216-1, dated October 23, 2019.

Gentlemen:

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

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

Respectfully Submitted,

SOUTHERN CALIFORNIA GEOTECHNICAL, INC.

Ricardo Frias, RCE 91772
Staff Engineer

REGISTERED PROFESSIONAL ENGINEER
RICARDO FRIAS
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CIVIL
STATE OF CALIFORNIA

Robert G. Trazo, GE 2655
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
ROBERT TRAZO
No. 2655
GEOTECHNICAL
STATE OF CALIFORNIA

Distribution: (1) Addressee

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1.0 EXECUTIVE SUMMARY

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

Site Preparation Recommendations

- Demolition of the existing developments, including foundations, floor slabs, pavements, concrete flatwork, septic tanks and any subsurface improvements which will not be utilized as part of the new development, will be required. Debris resulting from demolition activities should be disposed of off-site in accordance with local regulations. Alternatively, concrete and asphalt debris may be crushed to a maximum 2-inch particle size, mixed with the on-site soils, and reused as compacted structural fill.
- Initial site preparation should also include stripping of the existing vegetation which consists of some areas of sparse native grass and weeds throughout the site. These materials should be properly disposed of off-site.
- The subsurface conditions encountered at the trench locations generally consist of a surficial layer of fill soils underlain by native alluvium. The fill soils extend to depths of 2 to 7½± feet at the trench locations. No documentation regarding the placement or compaction of the fill soils is available, and they are therefore considered to represent undocumented fill. These soils are not considered suitable to support the foundation loads of the new structure.
- Remedial grading is recommended within the proposed building area in order to remove the existing undocumented fill soils, which extend to depths of 2 to 7½± feet at the trench locations. It is also recommended that the proposed building pad areas be overexcavated to a depth of at least 3 feet below existing grade and to a depth of at least 3 feet below proposed pad grades, whichever is deeper. Overexcavation within the new foundation areas is recommended to extend to a depth of at least 3 feet below proposed foundation bearing grade.
- The plan indicates that the proposed northern building wall of the proposed retail building will be constructed in a zero-lot-line-condition. Based on this condition, the full lateral extent of overexcavation will not be feasible in the vicinity of this area. Specialized grading techniques, such as A-B-C slot cuts, in conjunction with a reduced bearing pressure for the affected foundations within these areas will be required.
- After overexcavation has been completed, the resulting subgrade soils should be evaluated by the geotechnical engineer to identify any additional soils that should be overexcavated. The resulting soils should be scarified and thoroughly flooded to achieve a moisture content of 0 to 4 percent above optimum moisture, to a depth of at least 12 inches. The overexcavation subgrade soils should then be recompacted under the observation of the geotechnical engineer. The previously excavated soils may then be replaced as compacted structural fill.
- The new pavement and flatwork subgrade soils are recommended to be scarified to a depth of 12± inches, thoroughly moisture conditioned and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density.
- The near-surface soils, especially those present below the exiting fill materials, contain significant amounts of oversized materials, including cobbles and boulders. Where grading

will require excavation into these materials, consideration should be given to using selective grading techniques to remove the cobbles and/or boulders from these soils prior to reuse as fill.

Building Foundation Recommendations

- Spread footing foundations, supported in newly placed structural fill soils.
- Maximum, net allowable soil bearing pressure: 3,000 lbs/ft^2.
- Reinforcement consisting of at least two (2) No. 5 rebars (1 top and 1 bottom) in strip footings. Additional reinforcement may be necessary for structural considerations.

Building Floor Slab Recommendations

- Conventional Slab on Grade, at least 6 inches thick
- Modulus of Subgrade Reaction: k = 150 psi/in
- Reinforcement is not considered to be necessary for geotechnical considerations.
- The actual thickness and reinforcement of the floor slab should be determined by the structural engineer

Pavements

ASPHALT PAVEMENTS (R = 60)					
Materials	Thickness (inches)				
	Parking Stalls (TI = 4.0)	Auto Drive Lanes (TI = 5.0)	Truck Traffic		
			(TI = 6.0)	(TI = 7.0)	(TI = 8.0)
Asphalt Concrete	3	3	3½	4	5
Aggregate Base	3	3	3	3	3
Compacted Subgrade	12	12	12	12	12

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 60)				
Materials	Thickness (inches)			
	Automobile Parking and Drive Areas (TI=4.0 & 5.0)	Truck Traffic		
		(TI =6.0)	(TI =7.0)	(TI =8.0)
PCC	5	5	5	6½
Compacted Subgrade (95% minimum compaction)	12	12	12	12

2.0 SCOPE OF SERVICES

The scope of services performed for this project was in accordance with our Proposal No. 21P126, dated January 25, 2021. The scope of services included a visual site reconnaissance, subsurface exploration, field and laboratory testing, and geotechnical engineering analysis to provide criteria for preparing the design of the building foundations, building floor slabs, and parking lot pavements along with site preparation recommendations and construction considerations for the proposed development. The evaluation of the environmental aspects of this site was beyond the scope of services for this geotechnical investigation.

3.0 SITE AND PROJECT DESCRIPTION

3.1 Site Conditions

The subject site is located on the south side of West Foothill Boulevard, 950± feet west of the intersection of West Foothill Boulevard and North Benson Avenue in Upland, California. The site is bounded to the north by West Foothill Boulevard, to the east by automotive repair shops/buildings, to the south by an industrial building, and to the west by a truck/trailer storage yard.

The subject site consists of several parcels which total 6.06± acres in size. The southwestern parcel is presently developed with eight (8) buildings. Six (6) of the buildings are located along the western property line and share common walls. These buildings range from 1,200 to 2,400± ft² in size. One building is located along the southern property line and is approximately 4,400 ft² in size. The last building is located in the northern portion of the southwest parcel and is approximately 1,200 ft² in size. A metal canopy is located in the central area of the southwest parcel. The buildings are assumed to be of concrete tilt-up construction, supported on conventional shallow foundations with concrete slab-on-grade floors. The ground surface cover surrounding the buildings consists of Portland cement concrete pavements. The ground surface cover in the northwestern parcel consists of asphaltic concrete pavements that are in poor condition, with severe cracking throughout. The remaining areas of the site are vacant and undeveloped. The ground surface cover in the eastern parcels consists of exposed soil with sparse native grass and weed growth. A soil berm 3± feet in height is located along the eastern portion of the south property line.

Detailed topographic information was not available at the time of this report. However, based on topographic information obtained from Google Earth, the site topography ranges from 1350± feet mean sea level (msl) in the northern area of the site to 1331± feet msl in the southern area of the site. Overall site topography slopes gently to the south at a gradient of 3± percent. The berm in the southeastern portion of the site slopes to the east at a gradient of 8± percent.

3.2 Proposed Development

A conceptual site plan for the proposed development was provided by the client to our office. Based on the site plan, the site will be developed with three (3) new buildings. A retail building will be located in the northern-most portion of the site and will possess a building footprint of 40,807± ft^2. The new retail building will be located in a zero-lot-line condition along the north property line. Two commercial/industrial buildings, identified as Buildings 1 and 2, will be constructed within the central and southern portions of the site. Building 1 will be 48,007± ft^2 in size and Building 2 will be 45,645± ft^2 in size. The smaller of the two commercial/industrial buildings will be located in the southern portion of the site. The commercial/industrial buildings will be constructed with dock-high doors located along a portion of one building wall. The buildings will be surrounded by asphaltic concrete pavements for parking and drive lanes and

Portland cement concrete pavements for the loading dock areas. Limited areas of landscape planters and concrete flatwork will be included throughout the site.

Detailed structural information has not been provided. It is assumed that the new buildings will be single-story structures of tilt-up concrete construction, typically supported on conventional shallow foundation systems with concrete slab-on-grade floors. Based on the assumed construction, maximum column and wall loads are expected to be on the order of 100 kips and 4 to 6 kips per linear foot, respectively.

Grading plans for the proposed development were not available at the time of this report. The proposed development is not expected to include any significant amounts of below-grade construction such as basements or crawl spaces.

3.3 Previous Study

Southern California Geotechnical, Inc. previously performed a geotechnical investigation at the subject site, previously referenced. As part of this investigation, subsurface exploration was performed including four (4) borings (identified as B-1 through B-4) advanced to depths of 2 to 15± feet. Three (3) of the borings were terminated at depths shallower than planned due to refusal on very dense cobbles. In addition to the borings, four (4) exploratory trenches (identified as T-1 through T-4) were advanced to depths of 5½ to 10½± feet below the existing site grades. Asphaltic concrete pavements, 3± inches thick, were present at the ground surface of Boring No. B-1. Portland cement concrete pavements, 7± inches thick, were present at the ground surface of Boring No. B-3. Artificial fill soils were encountered beneath the pavements at Boring No. B-1, at the ground surface of Boring No. B-4, and at all of the trench locations, extending to depths of 1½ to 5± feet below the existing site grades. The fill soils generally consist of medium dense to very dense silty fine sands with varying medium to coarse sand and fine to coarse gravel content with occasional cobbles and boulders. The fill soils possess a disturbed appearance and some samples contain debris, such as brick fragments, rebar, and plastic, resulting in their classification as artificial fill. Soils classified as possible fill were encountered beneath the PCC pavements at Boring No. B-3, and beneath the artificial fill soils at Boring No. B-4, extending to depths of 2 to 5½± feet below existing site grades. These materials generally consist of gravelly fine to coarse sands, with varying silt content and occasional cobbles. The materials resemble the underlying native alluvium, but possess a somewhat disturbed appearance, resulting in their classification as possible fill. Boring No. B-3 was terminated within the possible fill soils, at a depth of 2± feet, due to refusal on very dense cobbles. Native alluvial soils were encountered at the ground surface of Boring No. B-2, and below the artificial fill and possible fill soils at all of the remaining boring and trench locations, with the exception of Boring No. B-3, extending to at least the maximum depth explored of 15± feet below existing site grades. The alluvium generally consists of dense to very dense gravelly fine to coarse sands, with occasional to abundant cobbles and boulders. Free water was not encountered within any of the boring and trenches. Based on the lack of any water within the borings and trenches and the moisture contents of the recovered soil samples, the static groundwater is considered to have existed at a depth in excess of 15± feet at the time of the subsurface exploration.

Based upon the conditions at the boring locations, SCG recommended that the building pad area be overexcavated in order to remove the existing fill soils and the upper portion of the

near-surface native alluvium. SCG also recommended that the existing soils within the building pad area be overexcavated to a depth of at least 3 feet below existing grades and to a depth of at least 3 feet below proposed pad grades, whichever was greater. Removals were also recommended to extend to a depth of at least 3 feet below proposed bearing grades within the foundation influence zones. Recommendations for the design and construction of shallow foundations with a concrete slab-on-grade floor were provided in the referenced report. Foundations were recommended to be designed for a maximum allowable soil bearing pressure of 3,000 lbs/ft^2.

4.0 SUBSURFACE EXPLORATION

4.1 Scope of Exploration/Sampling Methods

The subsurface exploration conducted for this project consisted of three (3) exploratory trenches excavated to depths of 10 to 13± feet below existing site grades. One (1) of the trenches was terminated at a depth shallower than planned due to refusal on very dense cobbles. All of the trenches were logged during excavation by a member of our staff.

The trenches were excavated using a rubber tire backhoe with a 24-inch-wide bucket. Due to the extensive presence of gravel and cobbles, obtaining undisturbed soil samples was not considered feasible. Representative bulk soil samples were taken during excavation. The bulk samples were collected in plastic bags and sealed to preserve their original moisture content. The samples were then transported to our laboratory for testing.

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

4.2 Geotechnical Conditions

Artificial Fill

Artificial fill soils were encountered at the ground surface at all of the trench locations, extending to depths of 2 to 7½± feet below the existing site grades. The fill soils generally consist of loose to dense silty fine to coarse sands with varying fine to coarse gravel content with occasional to abundant cobbles and boulders. The fill soils possess a disturbed appearance and some samples contain debris, such as brick fragments, rebar, and plastic, resulting in their classification as artificial fill.

Alluvium

Native alluvial soils were encountered below the artificial fill soils at all of the trench locations, extending to at least the maximum depth explored of 13± feet below existing site grades. The alluvium generally consists of dense to very dense gravelly fine to coarse sands and fine to coarse sands, with occasional to abundant cobbles.

Groundwater

Free water was not encountered within any of the trenches. Based on the lack of any water within the trenches and the moisture contents of the recovered soil samples, the static

groundwater is considered to have existed at a depth in excess of 13± feet at the time of the subsurface exploration.

As part of our research, we also reviewed recent groundwater data available within the vicinity of the site. The primary reference used to determine the groundwater depths in this area is the California Department of Water Resources website, http://wdl.water.ca.gov/waterdatalibrary/. The nearest monitoring well in this database is located approximately 7181± feet northwest of the site. Water level readings within this monitoring well indicates a high groundwater level of 203± feet in October 6, 2020.

5.0 LABORATORY TESTING

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

Classification

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

Moisture Content

The moisture contents have been determined in accordance with ASTM D-2216, and are expressed as a percentage of the dry weight. These test results are presented on the Boring Logs.

Maximum Dry Density and Optimum Moisture Content

One representative bulk sample has been tested for its maximum dry density and optimum moisture content. The results have been obtained using the Modified Proctor procedure, per ASTM D-1557 and are presented on Plate C-1 in Appendix C of this report. This test is generally used to compare the in-situ densities of undisturbed field samples, and for later compaction testing. Additional testing of other soil types or soil mixes may be necessary at a later date. The results of maximum dry density and optimum moisture content testing performed during the referenced geotechnical investigation are included in Appendix F of this report.

Soluble Sulfates

Sulfate testing was performed as part of the previous studies, and these results are included in the table below. Soluble sulfates are naturally present in soils, and if the concentration is high enough, can result in degradation of concrete which comes into contact with these soils.

Sample Identification	Soluble Sulfates (%)	Sulfate Classification
B-1 @ 0 to 5 feet (from previous study SCG Job No. 19G216-1)	<0.001	Not Applicable (S0)

A representative sample of the near-surface soil was submitted to a subcontracted analytical laboratory for determination of soluble sulfate content. The result of the soluble sulfate testing is not yet available. This result, along with recommendations for any appropriate sulfate-resistant concrete mix designs will be presented in an addendum report, the pending results are also anticipated to reflect a class S0.

Corrosivity Testing

A representative bulk sample of the near-surface soils was submitted to a subcontracted corrosion engineering laboratory to determine if the near-surface soils possess corrosive characteristics with respect to common construction materials. The corrosivity testing included a determination of the electrical resistivity, pH, and chloride concentrations of the soils, as well as other tests. The results of these tests are not yet available. These results, along with any appropriate corrosion protection recommendations will be presented in an addendum report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

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

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

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

6.1 Seismic Design Considerations

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

Faulting and Seismicity

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

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

Seismic Design Parameters

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

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

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

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

2019 CBC SEISMIC DESIGN PARAMETERS

Parameter		Value
Mapped MCE_R Acceleration at 0.2 sec Period	S_S	1.694
Mapped MCE_R Acceleration at 1.0 sec Period	S_1	0.637
Site Class	---	D
Site Modified Spectral Acceleration at 0.2 sec Period	S_{MS}	1.694
Site Modified Spectral Acceleration at 1.0 sec Period	S_{M1}	1.083
Design Spectral Acceleration at 0.2 sec Period	S_{DS}	1.129
Design Spectral Acceleration at 1.0 sec Period	S_{D1}	0.722

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

Liquefaction

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

The California Geological Survey (CGS) has not yet conducted detailed seismic hazards mapping in the area of the subject site. The general liquefaction susceptibility of the site was determined by research of the San Bernardino County Official Land Use Plan, General Plan, Geologic Hazard Overlay. Map FH27-C for the Ontario Quadrangle indicates that the subject site is not located within an area of liquefaction susceptibility. Based on the mapping performed by the county of San Bernardino and the subsurface conditions encountered at the boring and trench locations, liquefaction is not considered to be a design concern for this project.

6.2 Geotechnical Design Considerations

General

The overall site is underlain by artificial fill soils, extending to depths of 2 to 7½± feet below the existing site grades. No documentation regarding the placement or compaction of these fill soils has been provided nor is expected to be available. The existing fill soils, in their present condition, are not considered suitable to support the foundations loads of new structures. Below these materials, the alluvium consists of high strength, dense to very dense well-graded sands and gravelly sands, with occasional to extensive cobbles and boulders. Therefore, remedial grading is recommended within the proposed building areas in order to remove the artificial fill materials, and replace these materials as compacted structural fill.

The site plan indicates that the proposed northern building perimeter wall of the proposed retail building will be constructed in a zero-lot-line-condition. Based on this condition, the full lateral extent of overexcavation will not be feasible in the vicinity of this area. Specialized grading techniques within the proposed northern building perimeter wall are discussed further in a subsequent section of this report.

Most of the near-surface soils encountered at the trench locations possess occasional to extensive cobbles and boulders. Recommendations for the handling and placement of oversized materials are presented in Section 6.3 of this report.

Settlement

The recommended remedial grading will remove the existing undocumented fill soils and a portion of the near-surface native alluvium soils and replace these materials as compacted structural fill. The native alluvium soils that will remain in place below the recommended depth of overexcavation will not be subject to significant stress increases from the foundations of the new structures. Therefore, following completion of the recommended grading, post-construction settlements are expected to be within tolerable limits.

Expansion

The near-surface soils generally consist of sands, gravelly sands, and silty sands with no appreciable clay content. These materials have been visually classified as non-expansive. Therefore, no design considerations related to expansive soils are considered warranted for this site.

Shrinkage/Subsidence

Removal and recompaction of the artificial fill and near-surface native soils is estimated to result in an average shrinkage of 6 to 14 percent. The shrinkage potential of the different soil strata at the site is expected to vary significantly due to the highly variable cobble and boulder content. It should be noted that this shrinkage estimate is based on our experience with similar projects in the area since collecting small-diameter soil samples was not feasible due to the presence of cobbles and boulders. If a more accurate and precise shrinkage estimate is desired, SCG can perform a shrinkage study involving several excavated test pits where in-place densities are determined using in-situ testing methods instead of laboratory density testing on small-diameter samples. Please contact SCG for details and a cost estimate regarding a shrinkage study, if desired.

Minor ground subsidence is expected to occur in the soils below the zone of removal due to settlement and machinery working. The subsidence is estimated to be 0.1 feet. This estimate is based on previous experience and the subsurface conditions encountered at the test boring and trench locations. The actual amount of subsidence is expected to be variable and will be dependent on the type of machinery used, repetitions of use, and dynamic effects, all of which are difficult to assess precisely. Additionally, volume loss due to removal of oversized rock materials is difficult to assess precisely.

Grading and Foundation Plan Review

No grading or foundation plans were available at the time of this report. It is therefore recommended that we be provided with copies of the preliminary plans, when they become available, for review with regard to the conclusions, recommendations, and assumptions contained within this report.

6.3 Site Grading Recommendations

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

Site Stripping and Demolition

Demolition of the existing buildings, pavements, and any associated improvements will be necessary to facilitate the proposed development site. Demolition of the existing structures should include all foundations, floor slabs, and any associated utilities. Any septic systems encountered during demolition and/or grading (if present) should be removed in their entirety. Any associated leach fields or other existing underground improvements should also be removed in their entirety. All applicable federal, state and local specifications and regulations should be followed in demolition, abandonment, and disposal of the existing structures and resulting debris.

Initial site stripping should include removal of the surficial vegetation from the site. Stripping should include the sparse native grass and weeds. The actual extent of site stripping should be determined in the field by the geotechnical engineer, based on the organic content and stability of the materials encountered.

Treatment of Existing Soils: Building Pad

Remedial grading will be necessary within the proposed building pad areas to remove the existing undocumented fill soils and the upper portion of the near surface native alluvial soils. The fill soils extend to depths of 2 to 7½± feet at the trench locations. As discussed above, these materials are considered to represent undocumented fill. The existing fill soils should be removed in their entirety. In addition, the overexcavation is recommended to extend to a depth of at least 3 feet below existing grade and 3 feet below proposed building pad subgrade elevations, whichever is greater. Within the influence zones of the new foundations, the overexcavation should extend to a depth of at least 3 feet below proposed foundation bearing grade.

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

The proposed retail building will be constructed in a zero-lot-line-condition along the northern property line. Therefore, the full lateral extent of overexcavation will not be feasible in the vicinity of this area. The contractor should take necessary precautions to protect the existing city sidewalk during rough grading operations. Specialized grading techniques, such as A-B-C slot cuts, will likely be required during rough grading procedures. The newly exposed overexcavation subgrade soils for each slot are to be evaluated and approved for filling by SCG

prior to placement of structural fill. The remainder of the building pad area may be overexcavated using conventional grading techniques.

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

After a suitable overexcavation subgrade has been achieved, the exposed soils should be scarified to a depth of at least 12 inches and thoroughly flooded to achieve a moisture content of 0 to 4 percent above optimum moisture content. The subgrade soils should then be recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. The building pad areas may then be raised to grade with previously excavated soils or imported structural fill.

Treatment of Existing Soils: Retaining Walls and Site Walls

The existing soils within the areas of proposed retaining and non-retaining site walls should be overexcavated to a depth of at least 3 feet below foundation bearing grade and replaced as compacted structural fill as discussed above for the proposed building pads. Any undocumented fill soils within the foundation areas should be removed in their entirety. The overexcavation areas should extend horizontally beyond the foundation perimeters to a distance equal to the depth of fill below the new foundations. These overexcavation recommendations also apply to any erection pads for tilt-up concrete walls, since these pads are part of the foundation system. The overexcavation subgrade soils should be evaluated by the geotechnical engineer prior to scarifying, moisture conditioning, and recompacting the upper 12 inches of exposed subgrade soils, as discussed for the building areas. The previously excavated soils may then be replaced as compacted structural fill.

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

Treatment of Existing Soils: Parking and Drive Areas

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

Subgrade preparation in the new parking and drive areas should initially consist of removal of all soils disturbed during stripping and demolition operations. The geotechnical engineer should then evaluate the subgrade to identify any areas of additional unsuitable soils. The subgrade soils should then be scarified to a depth of 12± inches, moisture conditioned to 0 to 4 percent above optimum, and recompacted to at least 90 percent of the ASTM D-1557 maximum dry density. Based on the presence of undocumented fill soils throughout the site, it is expected that some isolated areas of additional overexcavation may be required to remove zones of lower strength, unsuitable soils.

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

Fill Placement

- Fill soils should be placed in thin (6± inches), near-horizontal lifts, moisture conditioned to within 0 to 4 percent above the optimum moisture content, and compacted.
- On-site soils may be used for fill provided they are cleaned of any debris to the satisfaction of the geotechnical engineer. The near-surface soils, especially those present beneath the existing fill materials, possess significant quantities of oversized material, including cobbles and boulders. Some sorting and/or crushing of these materials may be required to generate soils that are suitable for reuse as compacted structural fill.
- All grading and fill placement activities should be completed in accordance with the requirements of the 2019 CBC and the grading code of the city of Upland.
- All fill soils should be compacted to at least 90 percent of the ASTM D-1557 maximum dry density.
- Compaction tests should be performed periodically by the geotechnical engineer as random verification of compaction and moisture content. These tests are intended to aid the contractor. Since the tests are taken at discrete locations and depths, they may not be indicative of the entire fill and therefore should not relieve the contractor of his responsibility to meet the job specifications.

Selective Grading and Oversized Material Placement

The existing soils possess significant cobble and/or boulder content. It is expected that large scrapers (Caterpillar 657 or equivalent) will be adequate to move the cobble containing soils as well as some of the soils containing smaller boulders. However, some larger boulders (2± feet in size) were also encountered at the trench locations. It will likely be necessary to move such larger boulders individually, and place them as oversized materials in accordance with the Grading Guide Specifications, in Appendix D of this report. Based on observations during our subsurface exploration activities, the on-site soils possessed approximately 25 to 40% cobble content and approximately 20 to 35% boulder content.

Since the proposed grading will require excavation of cobble and boulder containing soils, it may be desirable to selectively grade the proposed building pad areas. The presence of particles greater than 3 inches in diameter within the upper 1 to 3 feet of the building pad subgrades will impact the utility and foundation excavations. Depending on the depths of fills required within the proposed parking areas, it may be feasible to sort the on-site soils, placing the materials greater than 3 inches in diameter within the lower depths of the fills, and limiting the upper 1 to 3 feet of soils to materials less than 3 inches in size. Oversized materials could

also be placed within the lower depths of the recommended overexcavations. In order to achieve this grading, it would likely be necessary to use rock buckets and/or rock sieves to separate the oversized materials from the remaining soil. Although such selective grading will facilitate further construction activities, it is not considered mandatory and a suitable subgrade could be achieved without such extensive sorting. However, in any case, it is recommended that all materials greater than 6 inches in size be excluded from the upper 1 foot of the surface of any compacted fills.

The placement of any oversized materials should be performed in accordance with the Grading Guide Specifications included in Appendix D of this report. If disposal of oversized materials is required, rock blankets or windrows should be used and such areas should be observed during construction and placement by a representative of the geotechnical engineer.

Imported Structural Fill

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

Utility Trench Backfill

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

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

Any soils used to backfill voids around subsurface utility structures, such as manholes or vaults, should be placed as compacted structural fill. If it is not practical to place compacted fill in these areas, then such void spaces may be backfilled with lean concrete slurry. Uncompacted pea gravel or sand is not recommended for backfilling these voids since these materials have a potential to settle and thereby cause distress of pavements placed around these subterranean structures.

6.4 Construction Considerations

Excavation Considerations

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

Slot Cutting Recommendations

As discussed in the previous section of this report, the proposed retail building will be constructed in a zero-lot-line-condition along the northern property line. The full lateral extent of overexcavation will not be feasible in the vicinity of this area. Excavation operations within this area should be performed in order to prevent the undermining of the subgrade soils of the existing city sidewalk adjacent to the subject site. Therefore, depending upon the subsurface conditions encountered during remedial grading procedures, slot cutting is likely to be necessary.

Slot cuts are anticipated to be no wider than approximately 6 feet along the property line. The length of these trenches (in the direction perpendicular to the property line) are anticipated to be a minimum of 3 feet and equal to the depth of the overexcavation, whichever is greater. The slot cuts are anticipated to be extended to a depth equal to the proposed bottom of overexcavation for the proposed buildings. Following removals, the resulting subgrades should be evaluated by a representative of the geotechnical engineer prior placement of compacted structural fill. The excavated trenches should then be backfilled to planned grade using compacted structural fill. The remaining areas of the building pad may then be overexcavated using conventional grading techniques. It should be noted that shoring may also be required, and that detailed shoring recommendations will be provided upon the review of the final grading plans.

Groundwater

The static groundwater table at this site is considered to exist at a depth greater than 13± feet. Therefore, groundwater is not expected to impact the grading or foundation construction activities.

6.5 Foundation Design and Construction

Based on the preceding grading recommendations, it is assumed that the new building pads will be underlain by structural fill soils used to replace existing undocumented fill soils and the upper portion of the near-surface native alluvium. These new structural fill soils are expected to extend to depths of at least 3 feet below proposed foundation bearing grades. Based on this

subsurface profile, the proposed structures may be supported on conventional shallow foundations.

Foundation Design Parameters

New square and rectangular footings may be designed as follows:

- Maximum, net allowable soil bearing pressure: 3,000 lbs/ft^2.
- Minimum wall/column footing width: 14 inches/24 inches.
- Minimum longitudinal steel reinforcement within strip footings: Two (2) No. 5 rebars (1 top and 1 bottom).
- Minimum foundation embedment: 12 inches into suitable structural fill soils, and at least 18 inches below adjacent exterior grade. Interior column footings may be placed immediately beneath the floor slab.
- It is recommended that the perimeter building foundations be continuous across all exterior doorways. Any flatwork adjacent to the exterior doors should be doweled into the perimeter foundations in a manner determined by the structural engineer.

The allowable bearing pressure presented above may be increased by one-third when considering short duration wind or seismic loads. The minimum steel reinforcement recommended above is based on geotechnical considerations; additional reinforcement may be necessary for structural considerations. The actual design of the foundations should be determined by the structural engineer.

Foundation Construction

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

The foundation subgrade soils should also be properly moisture conditioned to 0 to 4 percent above the Modified Proctor optimum, to a depth of at least 12 inches below bearing grade. Since it is typically not feasible to increase the moisture content of the floor slab and foundation subgrade soils once rough grading has been completed, care should be taken to maintain the moisture content of the building pad subgrade soils throughout the construction process.

Estimated Foundation Settlements

Post-construction total and differential settlements of shallow foundations designed and constructed in accordance with the previously presented recommendations are estimated to be

less than 1.0 and 0.5 inches, respectively. Differential movements are expected to occur over a 60-foot span, thereby resulting in an angular distortion of less than 0.002 inches per inch.

Lateral Load Resistance

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

- Passive Earth Pressure: 350 lbs/ft^3
- Friction Coefficient: 0.35

These are allowable values, and include a factor of safety. When combining friction and passive resistance, the passive pressure component should be reduced by one-third. These values assume that footings will be poured directly against compacted structural fill. The maximum allowable passive pressure is 3,000 lbs/ft^2.

6.6 Floor Slab Design and Construction

Subgrades which will support the new floor slabs should be prepared in accordance with the recommendations contained in the *Site Grading Recommendations* section of this report. Based on the anticipated grading which will occur at this site, the floors of the new structures may be constructed as conventional slabs-on-grade, supported on newly placed structural fill soils. These fill soils are expected to extend to a depth of at least 3 feet below finished pad grades. Based on geotechnical considerations, the floor slabs may be designed as follows:

- Minimum slab thickness: 6 inches.

- Modulus of Subgrade Reaction: k = 150 psi/in

- Minimum slab reinforcement: Reinforcement is not required for geotechnical conditions. The actual floor slab reinforcement should be determined by the structural engineer, based upon the imposed loading.

- Slab underlayment: If moisture sensitive floor coverings will be used the minimum slab underlayment should consist of a moisture vapor barrier constructed below the entire area where such moisture sensitive floor coverings are anticipated. The moisture vapor barrier should meet or exceed the Class A rating as defined by ASTM E 1745-97 and have a permeance rating less than 0.01 perms as described in ASTM E 96-95 and ASTM E 154-88. A polyolefin material such as 15-mil Stego® Wrap Vapor Barrier or equivalent will meet these specifications. The moisture vapor barrier should be properly constructed in accordance with all applicable manufacturer specifications. The need for sand and/or the amount of sand above the moisture vapor barrier should be specified by the structural engineer or concrete contractor. The selection of sand above the barrier is not a geotechnical engineering issue and hence outside our purview.

- Moisture condition the floor slab subgrade soils to 0 to 4 percent above the Modified Proctor optimum moisture content, to a depth of 12 inches. The moisture content of the

floor slab subgrade soils should be verified by the geotechnical engineer within 24 hours prior to concrete placement.

- Proper concrete curing techniques should be utilized to reduce the potential for slab curling or the formation of excessive shrinkage cracks.

The actual design of the floor slabs should be completed by the structural engineer to verify adequate thickness and reinforcement.

6.7 Retaining Wall Design and Construction

Small retaining walls are expected to be necessary in the area of the new truck loading docks and may also be required to facilitate the new site grades. The parameters recommended for use in the design of these walls are presented below.

Retaining Wall Design Parameters

Based on the soil conditions encountered at the trench locations, the following parameters may be used in the design of new retaining walls for this site. We have provided parameters assuming the use of on-site soils for retaining wall backfill. The on-site soils generally consist of silty sands, gravelly sands, and sands with varying gravel content. Based on their classification, these materials are expected to possess a friction angle of at least 32 degrees when compacted to 90 percent of the ASTM-1557 maximum dry density.

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

RETAINING WALL DESIGN PARAMETERS

Design Parameter		Soil Type On-Site Silty Sands and Sands
Internal Friction Angle (ϕ)		32°
Unit Weight		131 lbs/ft^3
Equivalent Fluid Pressure:	Active Condition (level backfill)	40 lbs/ft^3
	Active Condition (2h:1v backfill)	62 lbs/ft^3
	At-Rest Condition (level backfill)	62 lbs/ft^3

The walls should be designed using a soil-footing coefficient of friction of 0.35 and an equivalent passive pressure of 350 lbs/ft^3. The structural engineer should incorporate appropriate factors of safety in the design of the retaining walls.

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

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

Retaining Wall Foundation Design

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

Seismic Lateral Earth Pressures

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

Backfill Material

On-site soils may be used to backfill the retaining walls. However, all backfill material placed within 3 feet of the back wall face should have a particle size no greater than 3 inches. The retaining wall backfill materials should be well graded.

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

All retaining wall backfill should be placed and compacted under engineering- controlled conditions in the necessary layer thicknesses to ensure an in-place density between 90 and 93 percent of the maximum dry density as determined by the Modified Proctor test (ASTM D1557-91). Care should be taken to avoid over-compaction of the soils behind the retaining walls, and the use of heavy compaction equipment should be avoided.

Subsurface Drainage

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

- A weep hole drainage system typically consisting of a series of 4-inch diameter holes in the wall situated slightly above the ground surface elevation on the exposed side of the wall and at an approximate 8-foot on-center spacing. The weep holes should include a 2 cubic foot pocket of open graded gravel, surrounded by an approved geotextile fabric, at each weep hole location.

- A 4-inch diameter perforated pipe surrounded by 2 cubic feet of gravel per linear foot of drain placed behind the wall, above the retaining wall footing. The gravel layer should be wrapped in a suitable geotextile fabric to reduce the potential for migration of fines. The footing drain should be extended to daylight or tied into a storm drainage system.

6.8 Pavement Design Parameters

Site preparation in the pavement area should be completed as previously recommended in the *Site Grading Recommendations* section of this report. The subsequent pavement recommendations assume proper drainage and construction monitoring, and are based on either PCA or CALTRANS design parameters for a twenty (20) year design period. However, these designs also assume a routine pavement maintenance program to obtain the anticipated 20-year pavement service life.

Pavement Subgrades

It is anticipated that the new pavements will be primarily supported on a layer of compacted structural fill, consisting of scarified, thoroughly moisture conditioned and recompacted existing soils. The on-site soils generally consist of silty sands and sands. Based on their classification, these materials are expected to possess excellent pavement support characteristics, with estimated R-values greater than 60. Since R-value testing was not included in the scope of services for this project, the subsequent pavement design is based upon an assumed R-value of 60. Any fill material imported to the site should have support characteristics equal to or greater than that of the on-site soils and be placed and compacted under engineering controlled conditions. It is recommended that R-value testing be performed after completion of rough grading.

Asphaltic Concrete

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

approximate daily traffic volumes over a 20 year design life, assuming six operational traffic days per week.

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

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

ASPHALT PAVEMENTS (R = 60)					
Materials	Thickness (inches)				
	Parking Stalls (TI = 4.0)	Auto Drive Lanes (TI = 5.0)	Truck Traffic		
			(TI = 6.0)	(TI = 7.0)	(TI = 8.0)
Asphalt Concrete	3	3	3½	4	5
Aggregate Base	3	3	3	3	3
Compacted Subgrade	12	12	12	12	12

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

Portland Cement Concrete

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

PORTLAND CEMENT CONCRETE PAVEMENTS (R = 60)				
Materials	Thickness (inches)			
	Automobile Parking and Drive Areas (TI=4.0 & 5.0)	Truck Traffic		
		(TI =6.0)	(TI =7.0)	(TI =8.0)
PCC	5	5	5	6½
Compacted Subgrade (95% minimum compaction)	12	12	12	12

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

7.0 GENERAL COMMENTS

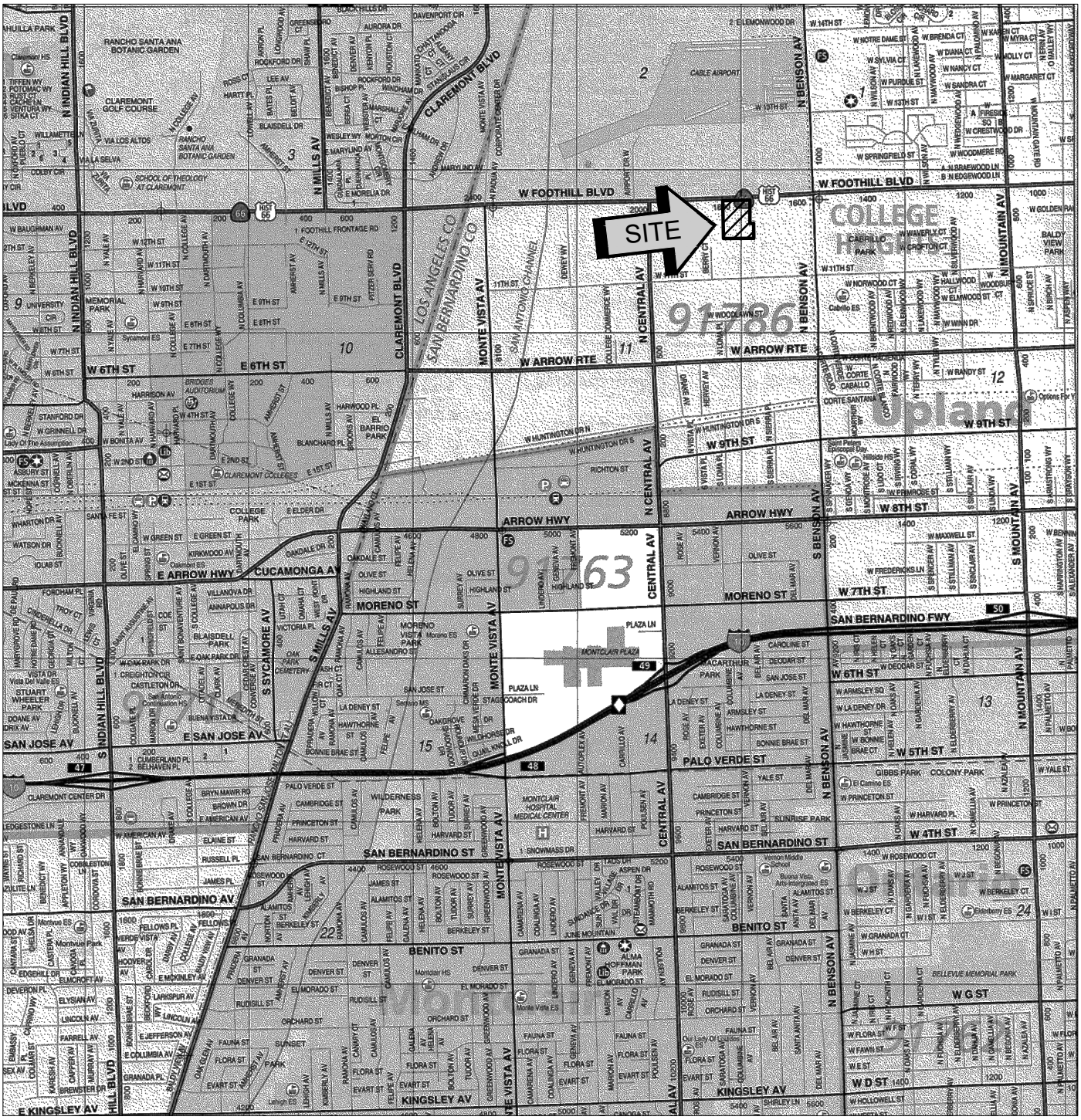
This report has been prepared as an instrument of service for use by the client, in order to aid in the evaluation of this property and to assist the architects and engineers in the design and preparation of the project plans and specifications. This report may be provided to the contractor(s) and other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

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

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

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

APPENDIX A



SOURCE: SAN BERNARDINO COUNTY
THOMAS GUIDE, 2013

SITE LOCATION MAP

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

UPLAND, CALIFORNIA

SCALE: 1" = 2400'	
DRAWN: RF CHKD: RGT	
SCG PROJECT 21G111-1	
PLATE 1	

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

FOOTHILL BLVD

NORTH
SoCalGeo

T-5

U R/W?

RETAIL

B-1

T-1

N.A.P

T-2

B-2

BLDG 1
48,007 SF

T-6

N.A.P

T-3

T-4

B-3

B-4

BLDG 2
45,645 SF

T-7

N.A.P

GEOTECHNICAL LEGEND

- APPROXIMATE TRENCH LOCATION
- APPROXIMATE BORING LOCATION (SCG PROJECT NO. 19G216-1)
- APPROXIMATE TRENCH LOCATION (SCG PROJECT NO. 19G216-1)
- EXISTING STRUCTURES TO BE DEMOLISHED

NOTE: SITE PLAN PREPARED BY HPA ARCHITECTURE

TRENCH LOCATION PLAN

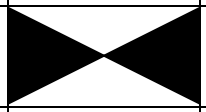
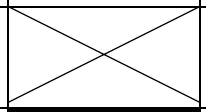
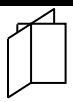
PROPOSED COMMECIAL/INDUSTRIAL DEVELOPMENT

UPLAND, CALIFORNIA

SCALE: 1" = 80'	SOUTHERN CALIFORNIA GEOTECHNICAL
DRAWN: RF CHKD: RGT	
SCG PROJECT 21G111-1	
PLATE 2	

APPENDIX B

TRENCH LOG LEGEND

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

COLUMN DESCRIPTIONS

DEPTH: Distance in feet below the ground surface.

SAMPLE: Sample Type as depicted above.

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

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

GRAPHIC LOG: Graphic Soil Symbol as depicted on the following page.

DRY DENSITY: Dry density of an undisturbed or relatively undisturbed sample in lbs/ft^3.

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

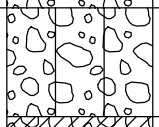
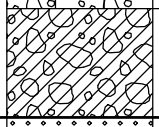
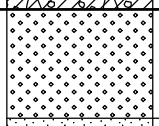
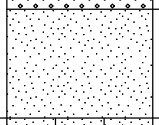
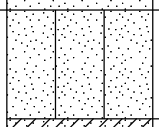
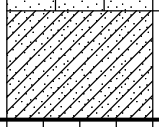
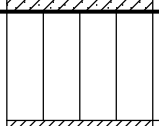
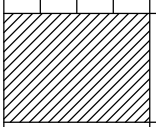
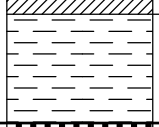
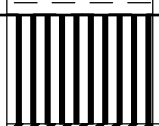
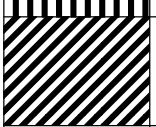
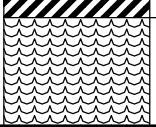
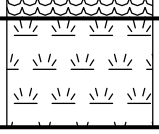
LIQUID LIMIT: The moisture content above which a soil behaves as a liquid.

PLASTIC LIMIT: The moisture content above which a soil behaves as a plastic.

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

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

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SAND, 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 DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-5

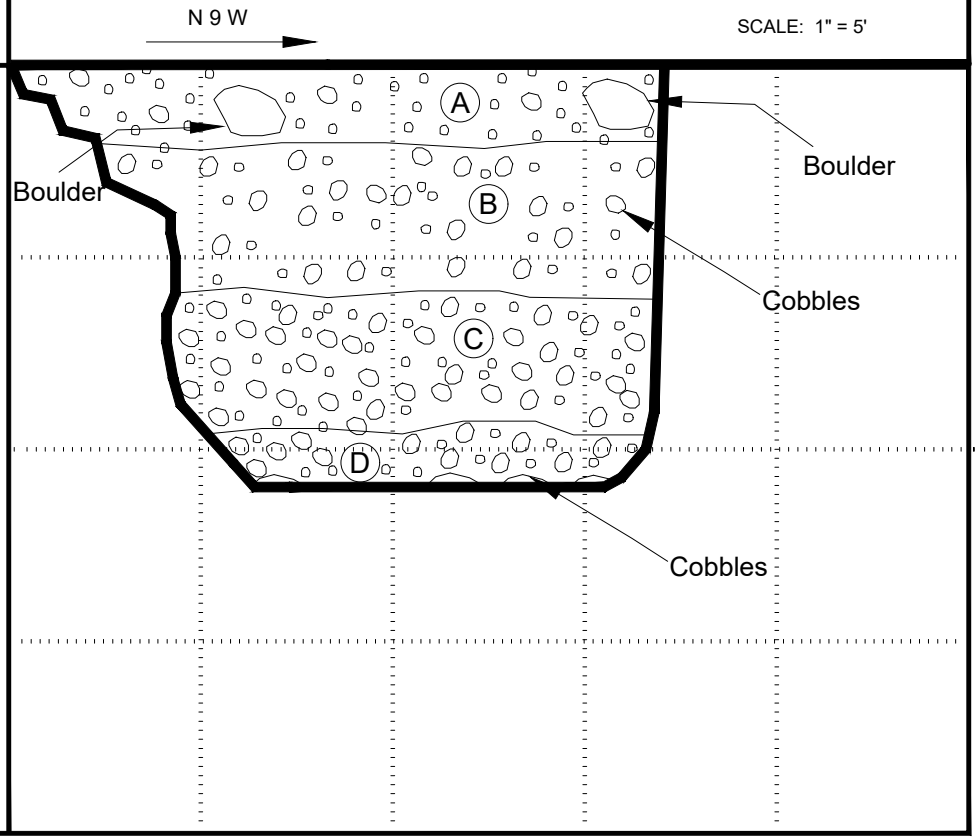
JOB NO.: 21G111-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Upland, CA
DATE: 2-3-2021

EQUIPMENT USED: Backhoe
LOGGED BY: Ryan Bermer
ORIENTATION: N 9 W
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		6	A: FILL: Dark Brown Silty fine to coarse Sand, little to some fine to coarse Gravel, abundant Cobbles, occasional Boulders, some trace fine root fibers, trace metal fragments, loose to medium dense-moist
	b		3	B: ALLUVIUM: Gray Brown fine to coarse Sand, trace Silt, abundant Cobbles, dense-damp
5	b		3	
				C: Gray Brown fine to coarse Sand, abundant Cobbles, dense-damp
	b		2	
10				D: Extensive Cobbles, very dense-damp
	b		2	
				Trench Terminated @ 11 feet Due to Dense Cobbles
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-6

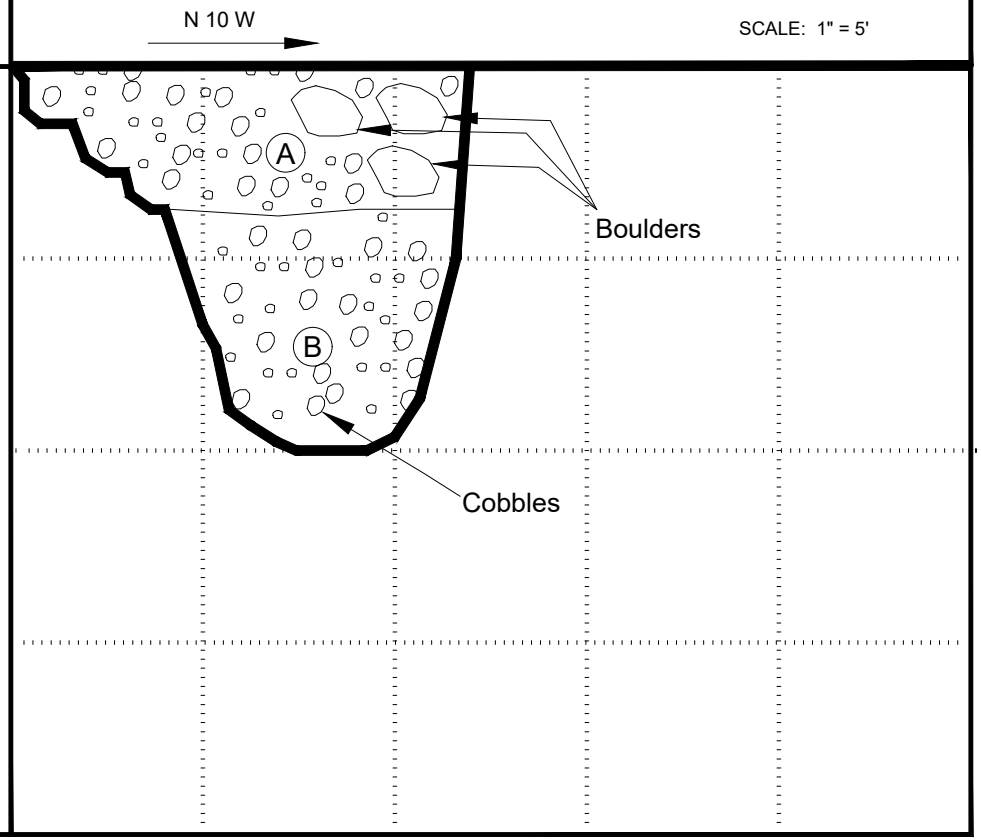
JOB NO.: 21G111-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Upland, CA
DATE: 2-3-2021

EQUIPMENT USED: Backhoe
LOGGED BY: Ryan Bermer
ORIENTATION: N 10 W
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		7	A: FILL: Dark Brown Silty fine to coarse Sand, little fine to coarse Gravel, abundant Cobbles, occasional Boulders, trace metal fragments, medium dense-moist
	b		3	B: ALLUVIUM: Gray Brown Gravelly fine to coarse Sand, abundant Cobbles, dense-damp
5	b		3	
	b		3	
10				Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-7

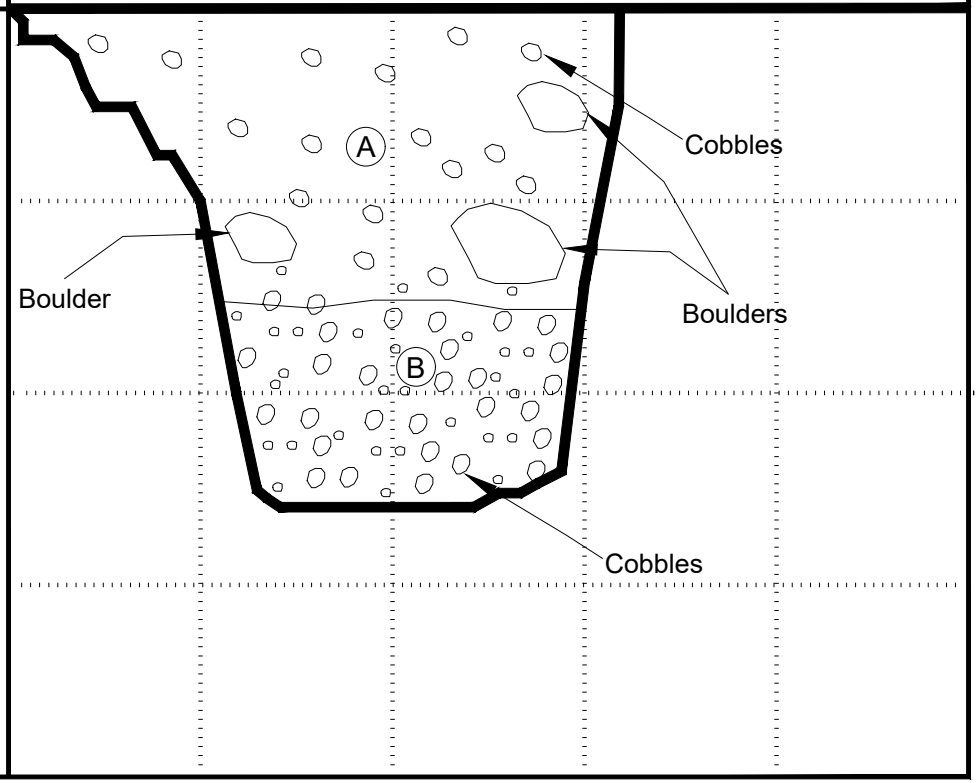
JOB NO.: 21G111-1
PROJECT: Proposed Commercial/Industrial Development
LOCATION: Upland, CA
DATE: 2-3-2021

EQUIPMENT USED: Backhoe
LOGGED BY: Ryan Bermer
ORIENTATION: N 87 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b		8	A: FILL: Dark Brown Silty fine to coarse Sand, little fine to coarse Gravel, occasional Cobbles, trace metal fragments, medium dense to dense-moist
5	b		8	@ 6 feet, occasional Boulders
	b		4	B: ALLUVIUM: Brown Gray fine to coarse Sand, abundant Cobbles, dense-damp
10	b		2	@ 10 feet, trace Silt
	b		3	
				Trench Terminated @ 13 feet
15				

GRAPHIC REPRESENTATION



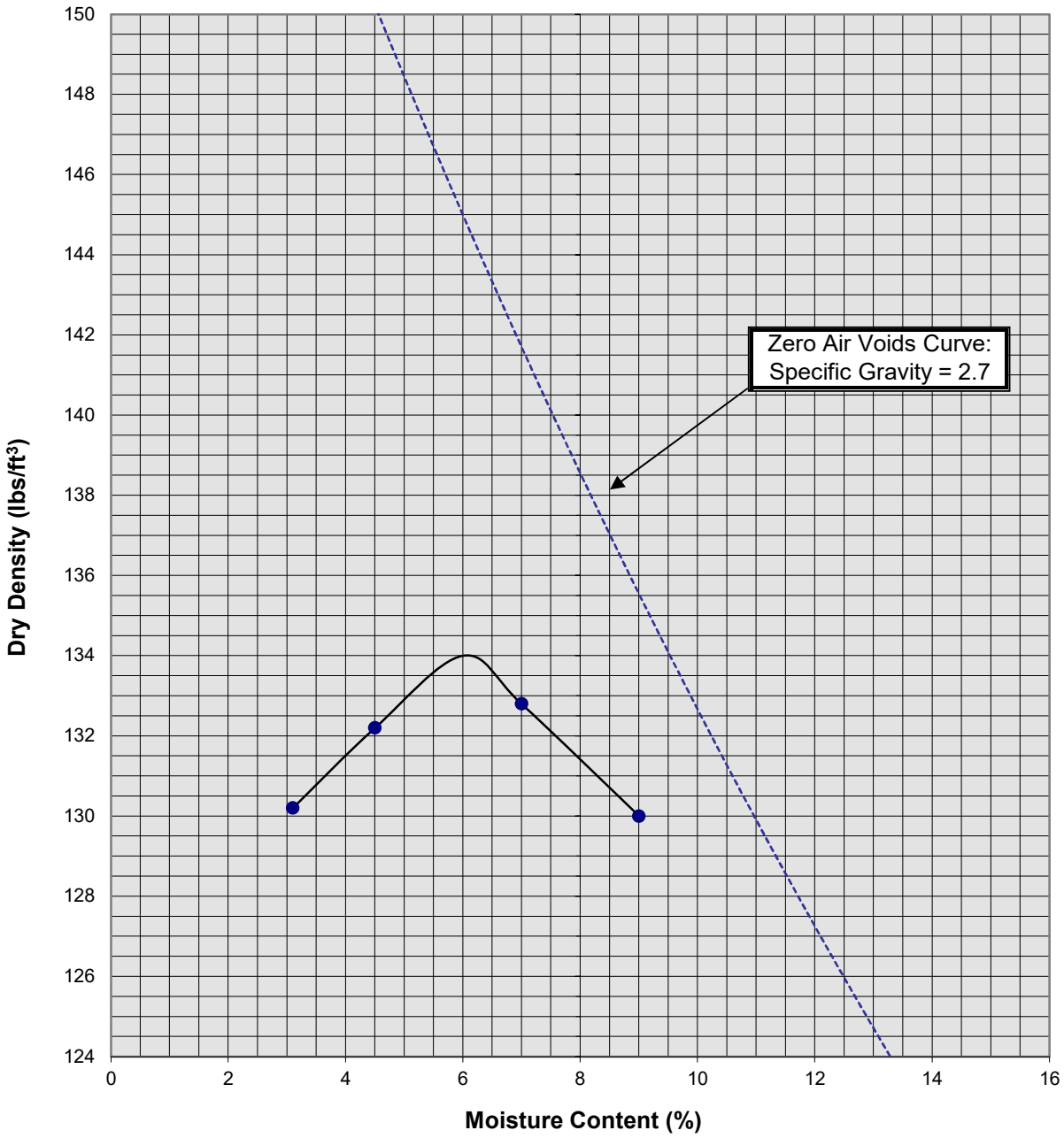
KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-3

APPENDIX C

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	T-5 @ 0-5'
Optimum Moisture (%)	5
Maximum Dry Density (pcf)	138
Soil Classification	Brown Gravelly fine to coarse Sand, trace Silt, occasional Cobbles

Note: Maximum Density and Optimum Moisture are based on 15% rock correction.

Proposed Commercial/Industrial Development
Upland, California
Project No. 21G111-1
PLATE C-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

APPENDIX D

GRADING GUIDE SPECIFICATIONS

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

General

- The Earthwork Contractor is responsible for the satisfactory completion of all earthwork in accordance with the plans and geotechnical reports, and in accordance with city, county, and applicable building codes.

- The Geotechnical Engineer is the representative of the Owner/Builder for the purpose of implementing the report recommendations and guidelines. These duties are not intended to relieve the Earthwork Contractor of any responsibility to perform in a workman-like manner, nor is the Geotechnical Engineer to direct the grading equipment or personnel employed by the Contractor.

- The Earthwork Contractor is required to notify the Geotechnical Engineer of the anticipated work and schedule so that testing and inspections can be provided. If necessary, work may be stopped and redone if personnel have not been scheduled in advance.

- The Earthwork Contractor is required to have suitable and sufficient equipment on the job-site to process, moisture condition, mix and compact the amount of fill being placed to the approved compaction. In addition, suitable support equipment should be available to conform with recommendations and guidelines in this report.

- Canyon cleanouts, overexcavation areas, processed ground to receive fill, key excavations, subdrains and benches should be observed by the Geotechnical Engineer prior to placement of any fill. It is the Earthwork Contractor's responsibility to notify the Geotechnical Engineer of areas that are ready for inspection.

- Excavation, filling, and subgrade preparation should be performed in a manner and sequence that will provide drainage at all times and proper control of erosion. Precipitation, springs, and seepage water encountered shall be pumped or drained to provide a suitable working surface. The Geotechnical Engineer must be informed of springs or water seepage encountered during grading or foundation construction for possible revision to the recommended construction procedures and/or installation of subdrains.

Site Preparation

- The Earthwork Contractor is responsible for all clearing, grubbing, stripping and site preparation for the project in accordance with the recommendations of the Geotechnical Engineer.

- If any materials or areas are encountered by the Earthwork Contractor which are suspected of having toxic or environmentally sensitive contamination, the Geotechnical Engineer and Owner/Builder should be notified immediately.

- Major vegetation should be stripped and disposed of off-site. This includes trees, brush, heavy grasses and any materials considered unsuitable by the Geotechnical Engineer.

- Underground structures such as basements, cesspools or septic disposal systems, mining shafts, tunnels, wells and pipelines should be removed under the inspection of the Geotechnical Engineer and recommendations provided by the Geotechnical Engineer and/or city, county or state agencies. If such structures are known or found, the Geotechnical Engineer should be notified as soon as possible so that recommendations can be formulated.

- Any topsoil, slopewash, colluvium, alluvium and rock materials which are considered unsuitable by the Geotechnical Engineer should be removed prior to fill placement.

- Remaining voids created during site clearing caused by removal of trees, foundations basements, irrigation facilities, etc., should be excavated and filled with compacted fill.

- Subsequent to clearing and removals, areas to receive fill should be scarified to a depth of 10 to 12 inches, moisture conditioned and compacted

- The moisture condition of the processed ground should be at or slightly above the optimum moisture content as determined by the Geotechnical Engineer. Depending upon field conditions, this may require air drying or watering together with mixing and/or discing.

Compacted Fills

- Soil materials imported to or excavated on the property may be utilized in the fill, provided each material has been determined to be suitable in the opinion of the Geotechnical Engineer. Unless otherwise approved by the Geotechnical Engineer, all fill materials shall be free of deleterious, organic, or frozen matter, shall contain no chemicals that may result in the material being classified as "contaminated," and shall be very low to non-expansive with a maximum expansion index (EI) of 50. The top 12 inches of the compacted fill should have a maximum particle size of 3 inches, and all underlying compacted fill material a maximum 6-inch particle size, except as noted below.

- All soils should be evaluated and tested by the Geotechnical Engineer. Materials with high expansion potential, low strength, poor gradation or containing organic materials may require removal from the site or selective placement and/or mixing to the satisfaction of the Geotechnical Engineer.

- Rock fragments or rocks less than 6 inches in their largest dimensions, or as otherwise determined by the Geotechnical Engineer, may be used in compacted fill, provided the distribution and placement is satisfactory in the opinion of the Geotechnical Engineer.

- Rock fragments or rocks greater than 12 inches should be taken off-site or placed in accordance with recommendations and in areas designated as suitable by the Geotechnical Engineer. These materials should be placed in accordance with Plate D-8 of these Grading Guide Specifications and in accordance with the following recommendations:

    - Rocks 12 inches or more in diameter should be placed in rows at least 15 feet apart, 15 feet from the edge of the fill, and 10 feet or more below subgrade. Spaces should be left between each rock fragment to provide for placement and compaction of soil around the fragments.

    - Fill materials consisting of soil meeting the minimum moisture content requirements and free of oversize material should be placed between and over the rows of rock or

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

- Subsequent rows of rocks should be placed such that they are not directly above a row placed in the previous lift of fill. A minimum 5-foot offset between rows is recommended.

- To facilitate future trenching, oversized material should not be placed within the range of foundation excavations, future utilities or other underground construction unless specifically approved by the soil engineer and the developer/owner representative.

- Fill materials approved by the Geotechnical Engineer should be placed in areas previously prepared to receive fill and in evenly placed, near horizontal layers at about 6 to 8 inches in loose thickness, or as otherwise determined by the Geotechnical Engineer for the project.

- Each layer should be moisture conditioned to optimum moisture content, or slightly above, as directed by the Geotechnical Engineer. After proper mixing and/or drying, to evenly distribute the moisture, the layers should be compacted to at least 90 percent of the maximum dry density in compliance with ASTM D-1557-78 unless otherwise indicated.

- Density and moisture content testing should be performed by the Geotechnical Engineer at random intervals and locations as determined by the Geotechnical Engineer. These tests are intended as an aid to the Earthwork Contractor, so he can evaluate his workmanship, equipment effectiveness and site conditions. The Earthwork Contractor is responsible for compaction as required by the Geotechnical Report(s) and governmental agencies.

- Fill areas unused for a period of time may require moisture conditioning, processing and recompaction prior to the start of additional filling. The Earthwork Contractor should notify the Geotechnical Engineer of his intent so that an evaluation can be made.

- Fill placed on ground sloping at a 5-to-1 inclination (horizontal-to-vertical) or steeper should be benched into bedrock or other suitable materials, as directed by the Geotechnical Engineer. Typical details of benching are illustrated on Plates D-2, D-4, and D-5.

- Cut/fill transition lots should have the cut portion overexcavated to a depth of at least 3 feet and rebuilt with fill (see Plate D-1), as determined by the Geotechnical Engineer.

- All cut lots should be inspected by the Geotechnical Engineer for fracturing and other bedrock conditions. If necessary, the pads should be overexcavated to a depth of 3 feet and rebuilt with a uniform, more cohesive soil type to impede moisture penetration.

- Cut portions of pad areas above buttresses or stabilizations should be overexcavated to a depth of 3 feet and rebuilt with uniform, more cohesive compacted fill to impede moisture penetration.

- Non-structural fill adjacent to structural fill should typically be placed in unison to provide lateral support. Backfill along walls must be placed and compacted with care to ensure that excessive unbalanced lateral pressures do not develop. The type of fill material placed adjacent to below grade walls must be properly tested and approved by the Geotechnical Engineer with consideration of the lateral earth pressure used in the design.

Foundations

- The foundation influence zone is defined as extending one foot horizontally from the outside edge of a footing, and proceeding downward at a ½ horizontal to 1 vertical (0.5:1) inclination.

- Where overexcavation beneath a footing subgrade is necessary, it should be conducted so as to encompass the entire foundation influence zone, as described above.

- Compacted fill adjacent to exterior footings should extend at least 12 inches above foundation bearing grade. Compacted fill within the interior of structures should extend to the floor subgrade elevation.

Fill Slopes

- The placement and compaction of fill described above applies to all fill slopes. Slope compaction should be accomplished by overfilling the slope, adequately compacting the fill in even layers, including the overfilled zone and cutting the slope back to expose the compacted core

- Slope compaction may also be achieved by backrolling the slope adequately every 2 to 4 vertical feet during the filling process as well as requiring the earth moving and compaction equipment to work close to the top of the slope. Upon completion of slope construction, the slope face should be compacted with a sheepsfoot connected to a sideboom and then grid rolled. This method of slope compaction should only be used if approved by the Geotechnical Engineer.

- Sandy soils lacking in adequate cohesion may be unstable for a finished slope condition and therefore should not be placed within 15 horizontal feet of the slope face.

- All fill slopes should be keyed into bedrock or other suitable material. Fill keys should be at least 15 feet wide and inclined at 2 percent into the slope. For slopes higher than 30 feet, the fill key width should be equal to one-half the height of the slope (see Plate D-5).

- All fill keys should be cleared of loose slough material prior to geotechnical inspection and should be approved by the Geotechnical Engineer and governmental agencies prior to filling.

- The cut portion of fill over cut slopes should be made first and inspected by the Geotechnical Engineer for possible stabilization requirements. The fill portion should be adequately keyed through all surficial soils and into bedrock or suitable material. Soils should be removed from the transition zone between the cut and fill portions (see Plate D-2).

Cut Slopes

- All cut slopes should be inspected by the Geotechnical Engineer to determine the need for stabilization. The Earthwork Contractor should notify the Geotechnical Engineer when slope cutting is in progress at intervals of 10 vertical feet. Failure to notify may result in a delay in recommendations.

- Cut slopes exposing loose, cohesionless sands should be reported to the Geotechnical Engineer for possible stabilization recommendations.

- All stabilization excavations should be cleared of loose slough material prior to geotechnical inspection. Stakes should be provided by the Civil Engineer to verify the location and dimensions of the key. A typical stabilization fill detail is shown on Plate D-5.

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

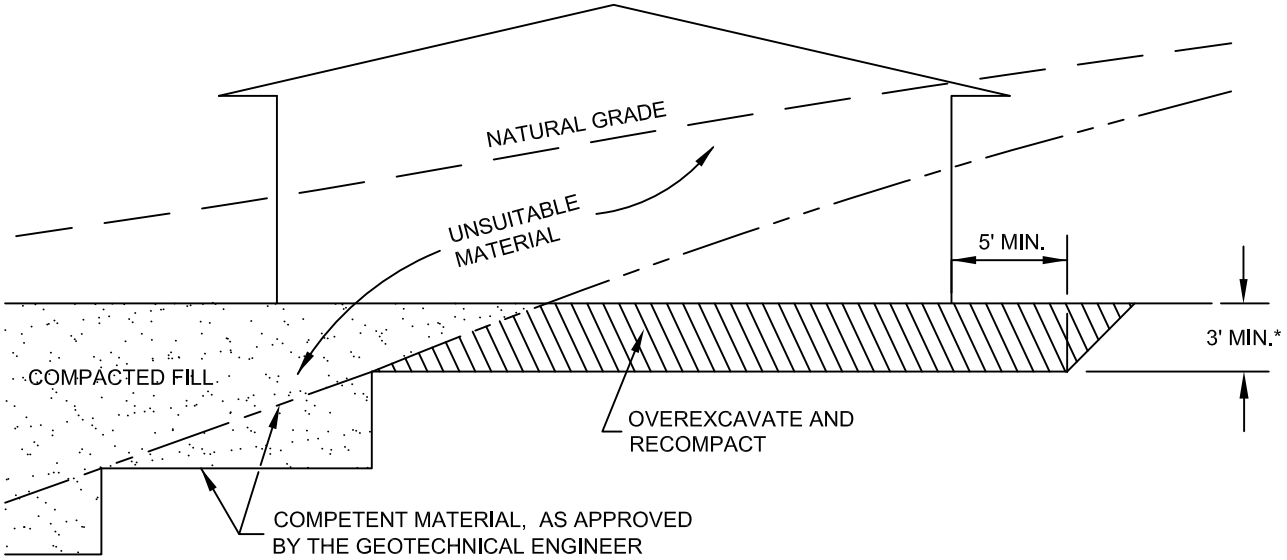
Subdrains

- Subdrains may be required in canyons and swales where fill placement is proposed. Typical subdrain details for canyons are shown on Plate D-3. Subdrains should be installed after approval of removals and before filling, as determined by the Soils Engineer.

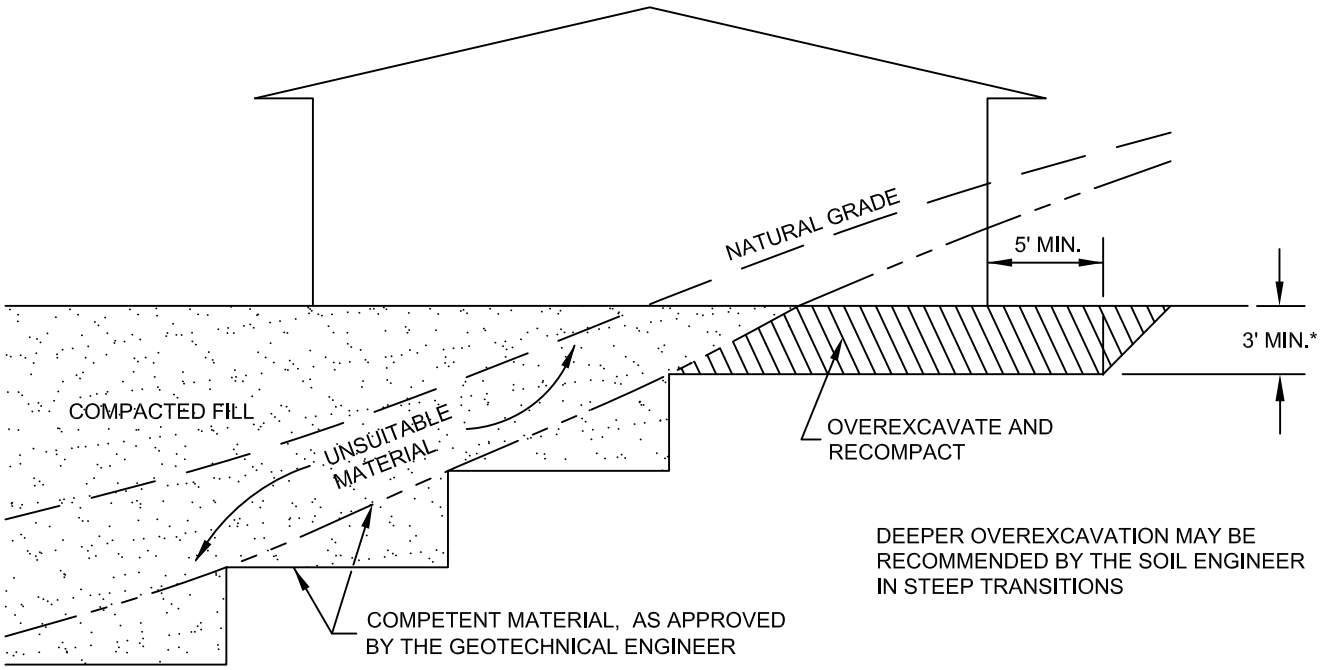
- Plastic pipe may be used for subdrains provided it is Schedule 40 or SDR 35 or equivalent. Pipe should be protected against breakage, typically by placement in a square-cut (backhoe) trench or as recommended by the manufacturer.

- Filter material for subdrains should conform to CALTRANS Specification 68-1.025 or as approved by the Geotechnical Engineer for the specific site conditions. Clean ¾-inch crushed rock may be used provided it is wrapped in an acceptable filter cloth and approved by the Geotechnical Engineer. Pipe diameters should be 6 inches for runs up to 500 feet and 8 inches for the downstream continuations of longer runs. Four-inch diameter pipe may be used in buttress and stabilization fills.

CUT LOT



CUT/FILL LOT (TRANSITION)



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

TRANSITION LOT DETAIL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-1

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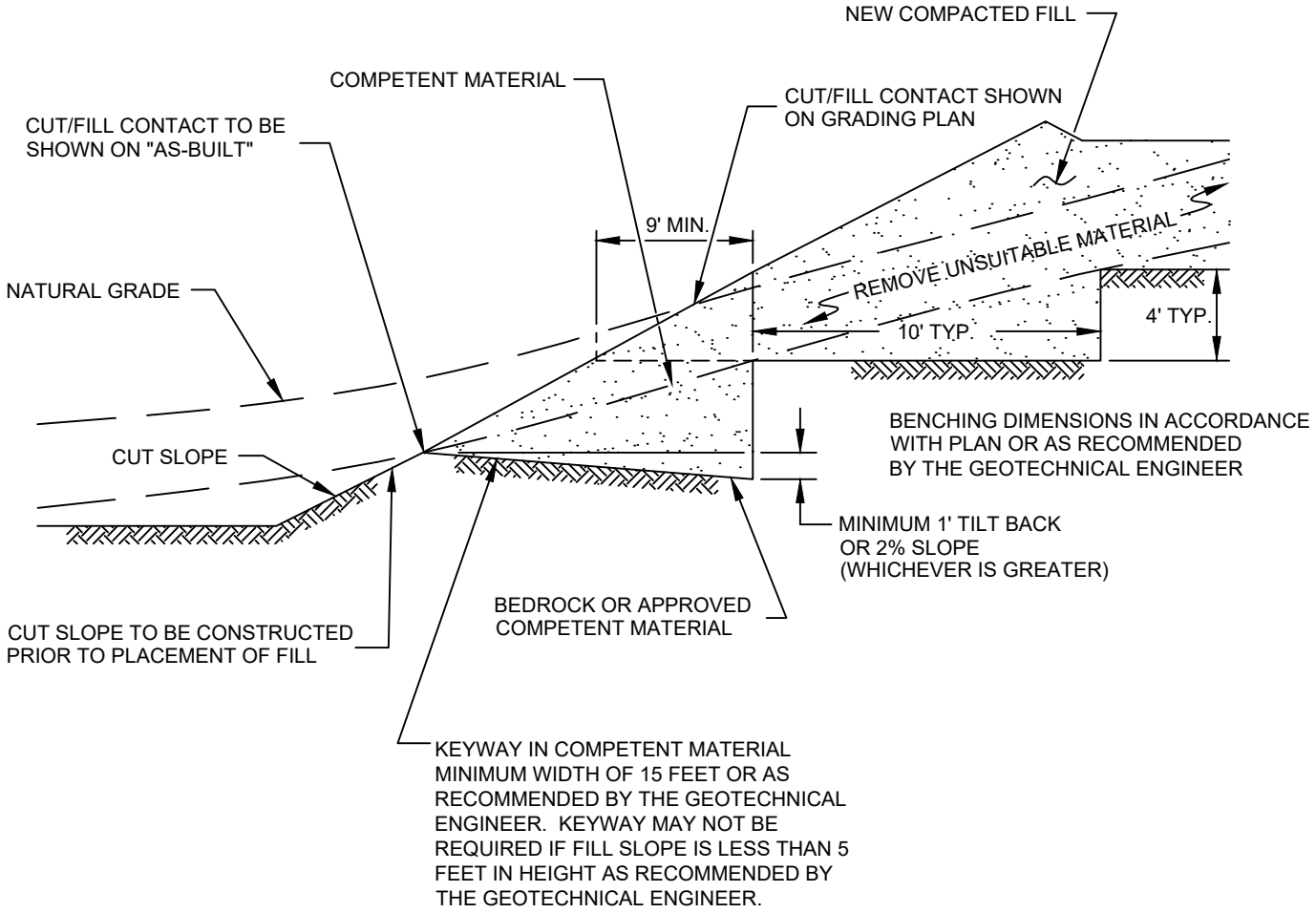


FILL ABOVE CUT SLOPE DETAIL

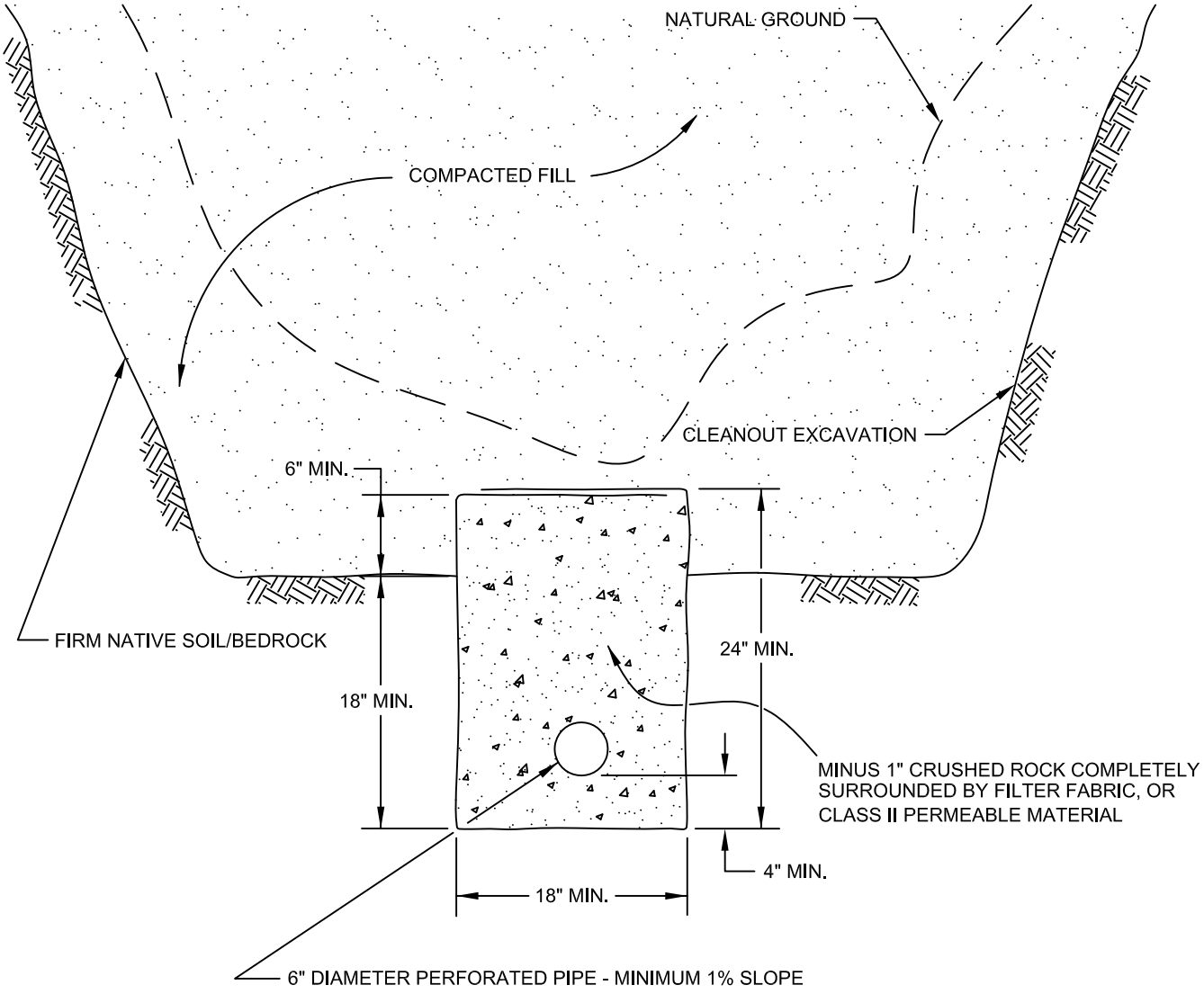
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-2

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



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

SCHEMATIC ONLY
NOT TO SCALE

CANYON SUBDRAIN DETAIL

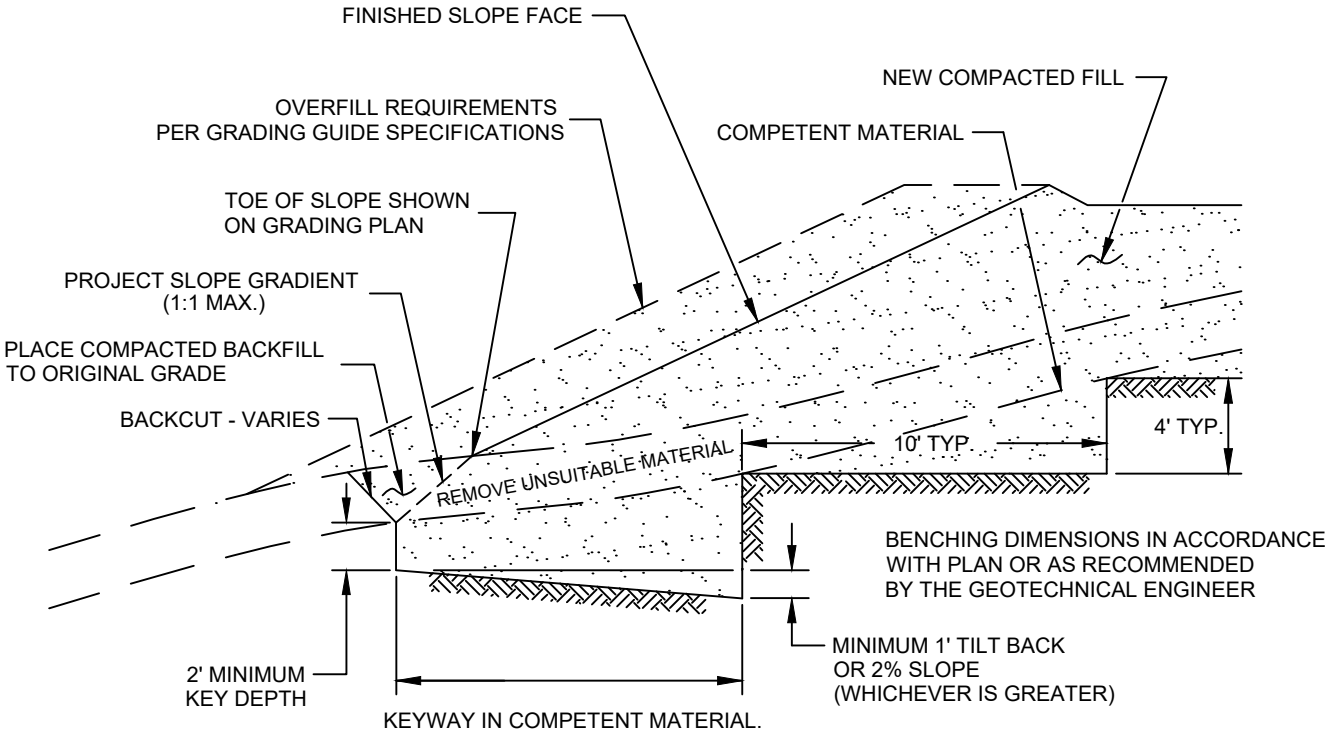
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-3

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



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

FILL ABOVE NATURAL SLOPE DETAIL

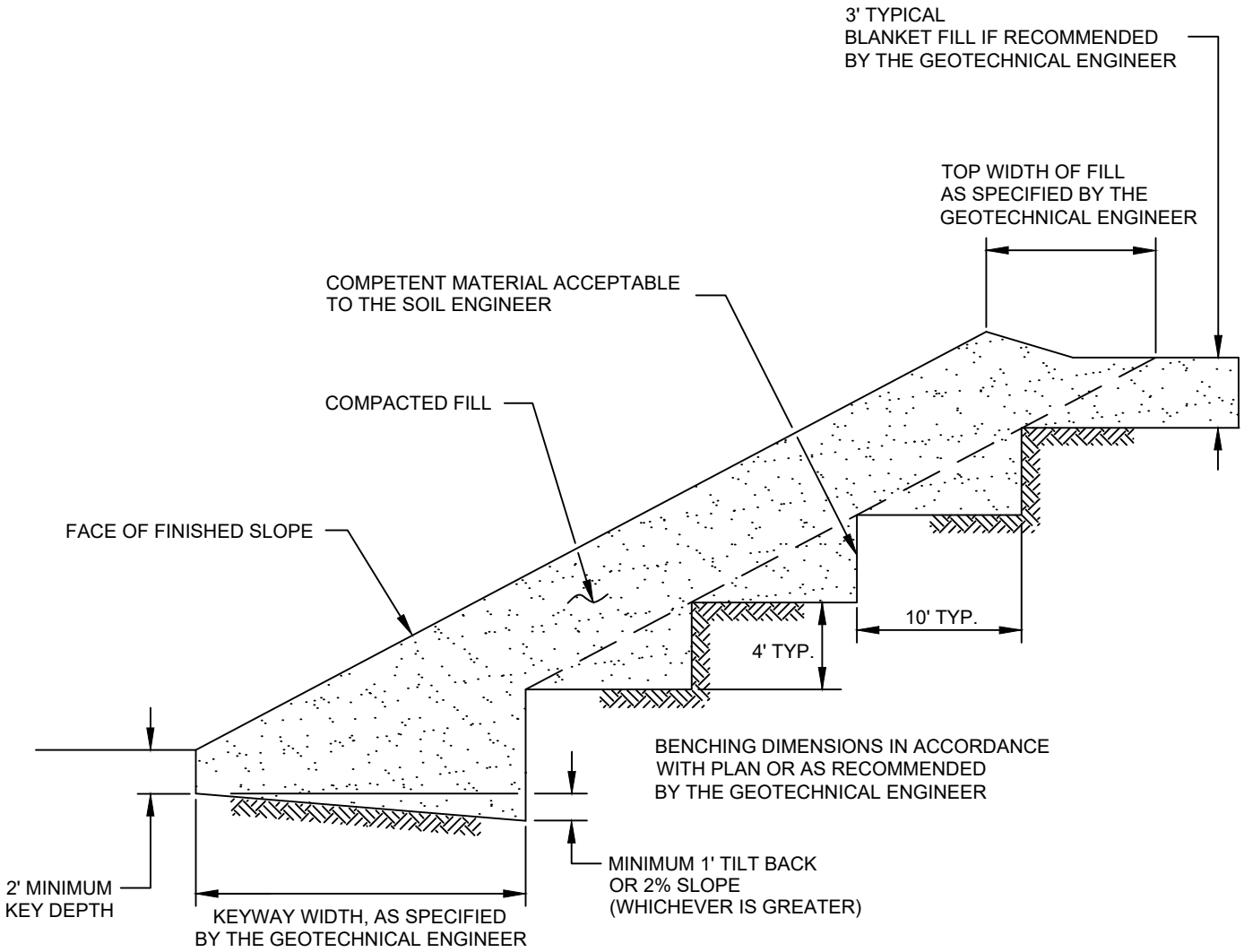
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-4

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



STABILIZATION FILL DETAIL

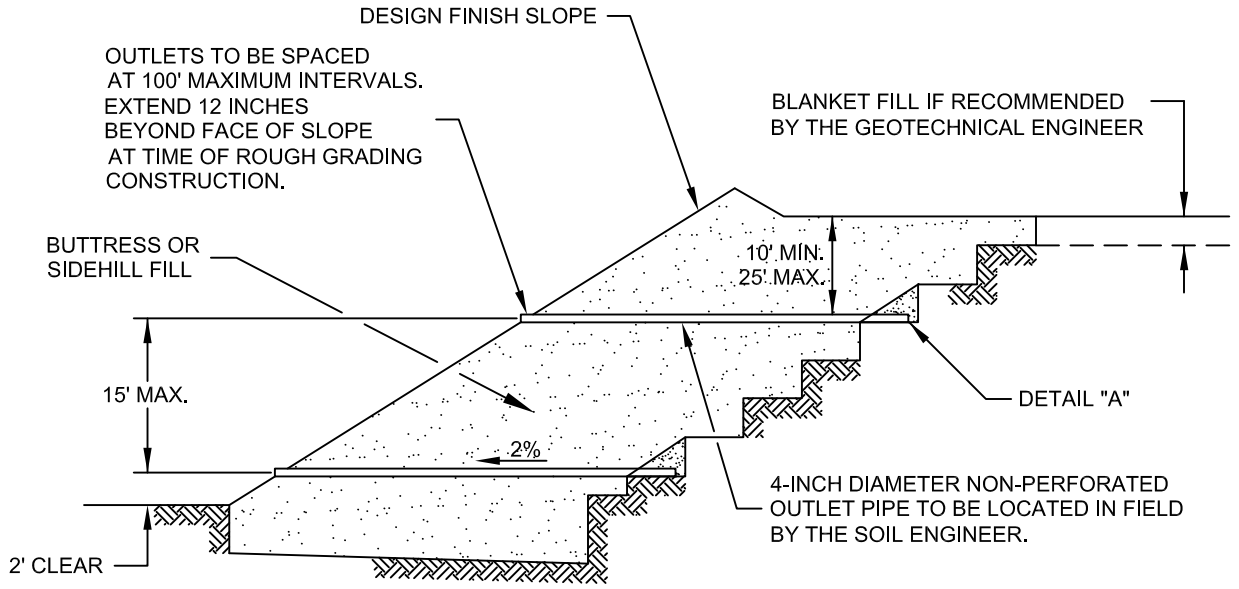
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-5

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



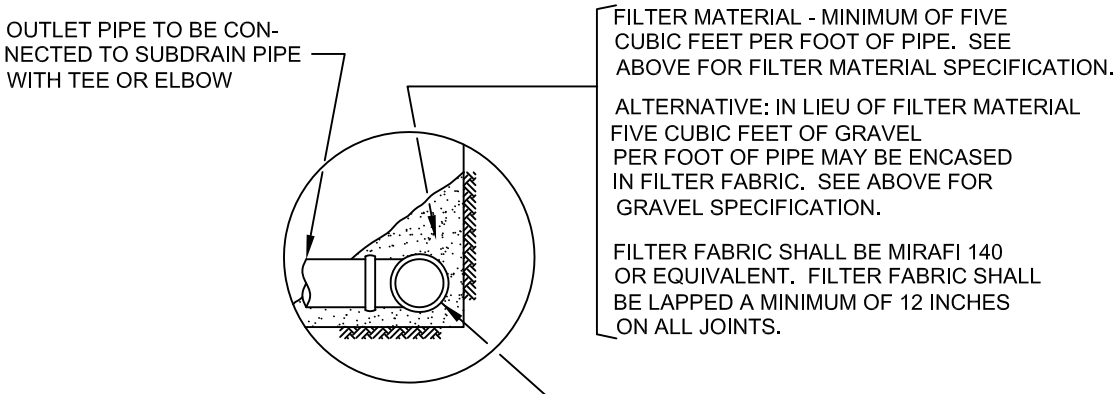
"FILTER MATERIAL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT: (CONFORMS TO EMA STD. PLAN 323)

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

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50



DETAIL "A"

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

SLOPE FILL SUBDRAINS

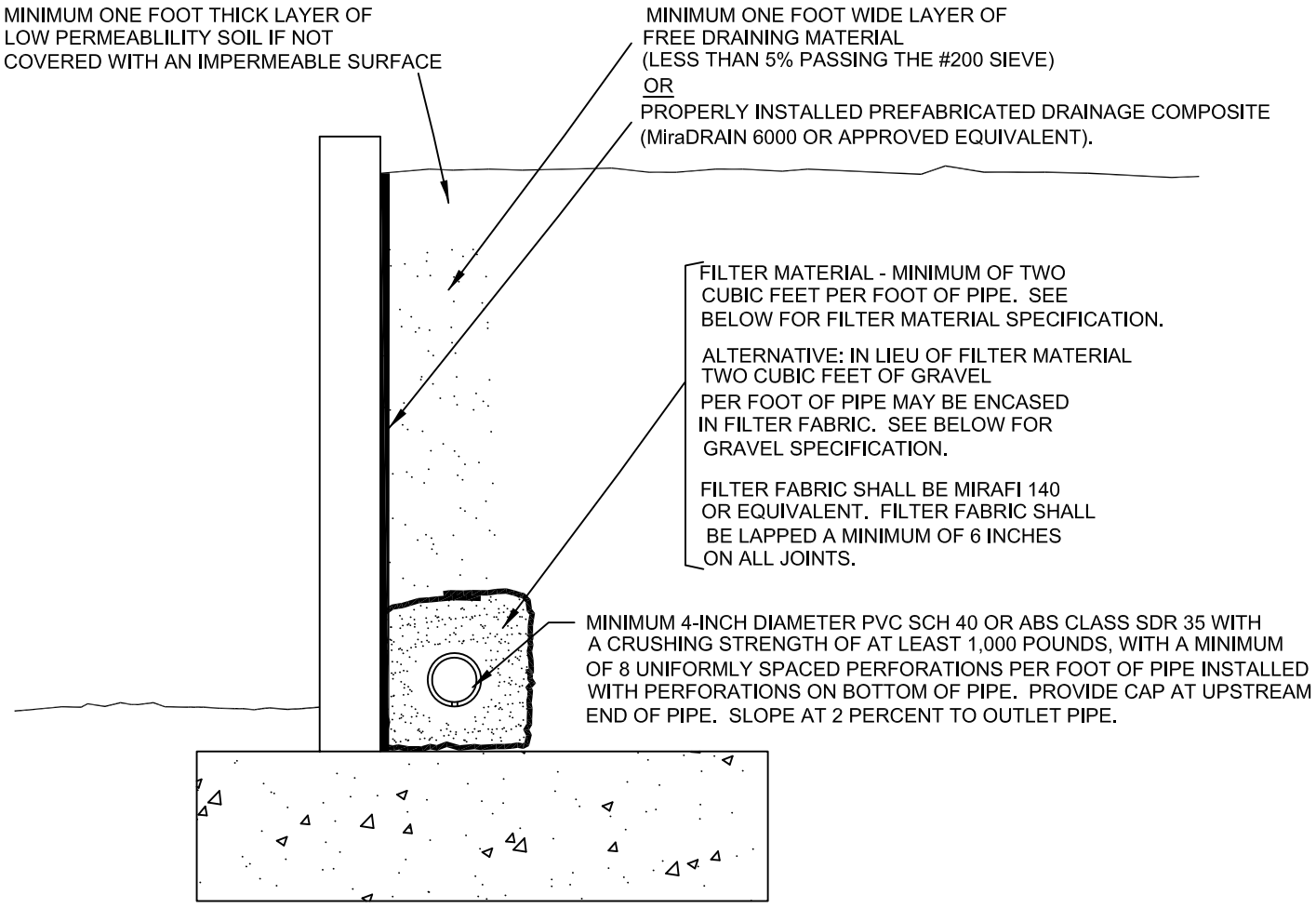
GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: JAS
CHKD: GKM

PLATE D-6

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL



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

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

"GRAVEL" TO MEET FOLLOWING SPECIFICATION OR APPROVED EQUIVALENT:

SIEVE SIZE	MAXIMUM PERCENTAGE PASSING
1 1/2"	100
NO. 4	50
NO. 200	8

SAND EQUIVALENT = MINIMUM OF 50

RETAINING WALL BACKDRAINS

GRADING GUIDE SPECIFICATIONS

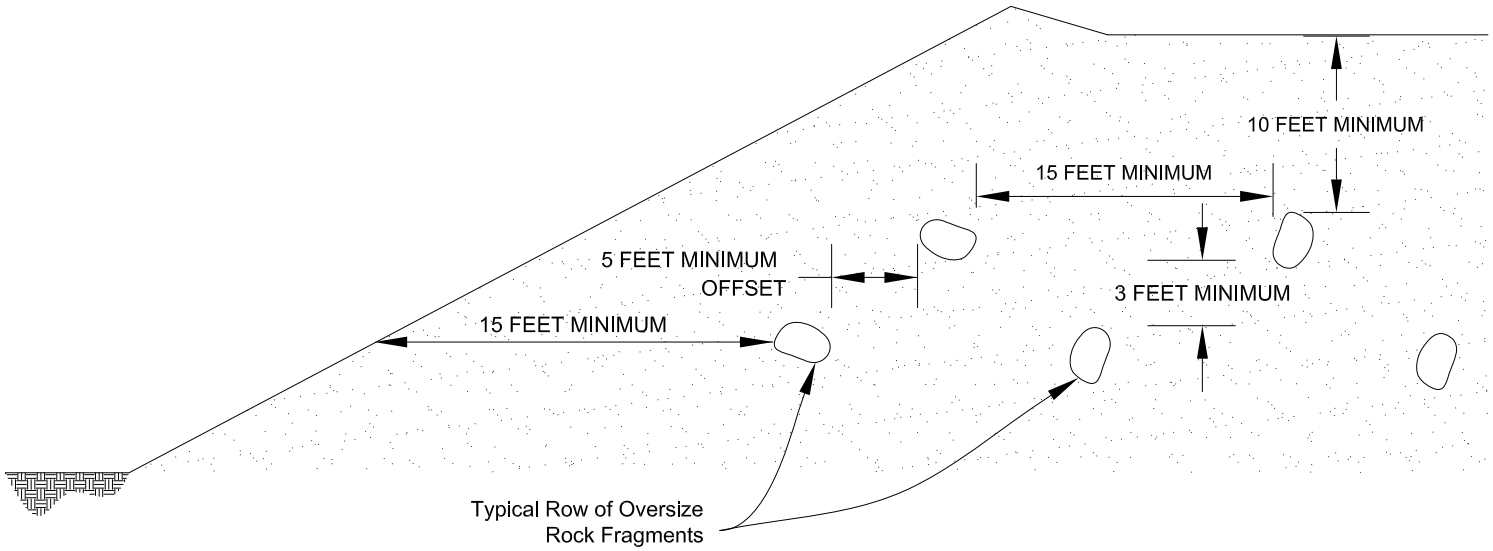
NOT TO SCALE

DRAWN: JAS
CHKD: GKM

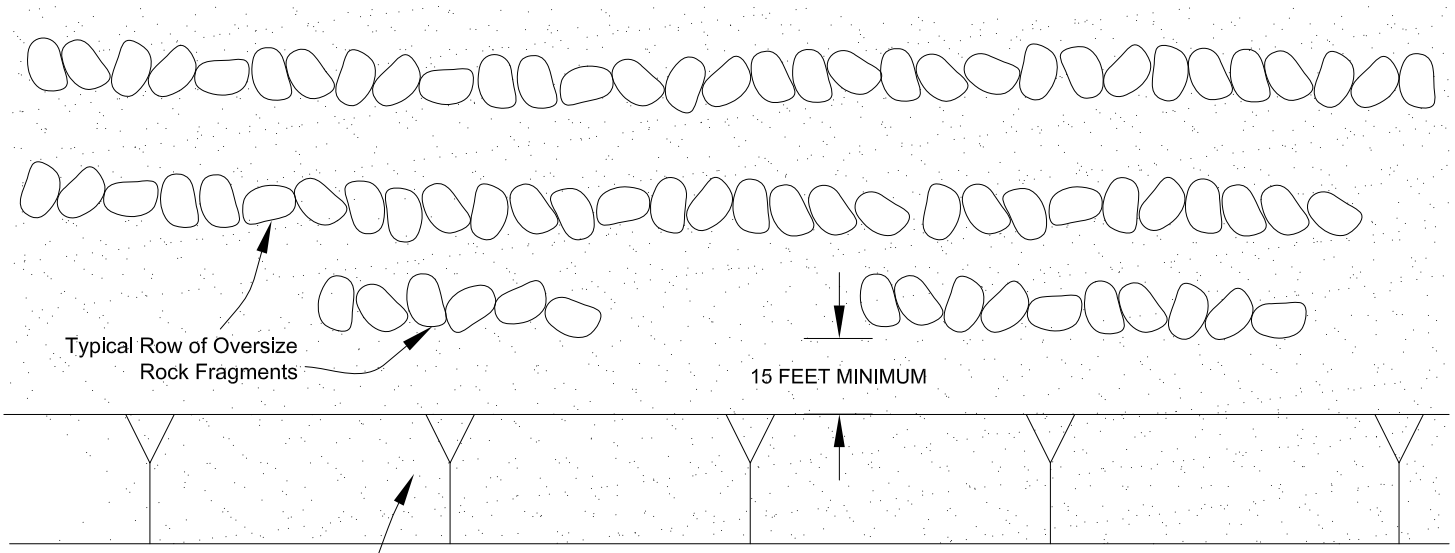
PLATE D-7

SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL



Section View



Plan View

PLACEMENT OF OVERSIZED MATERIAL

GRADING GUIDE SPECIFICATIONS

NOT TO SCALE

DRAWN: PM
CHKD: GKM

PLATE D-8

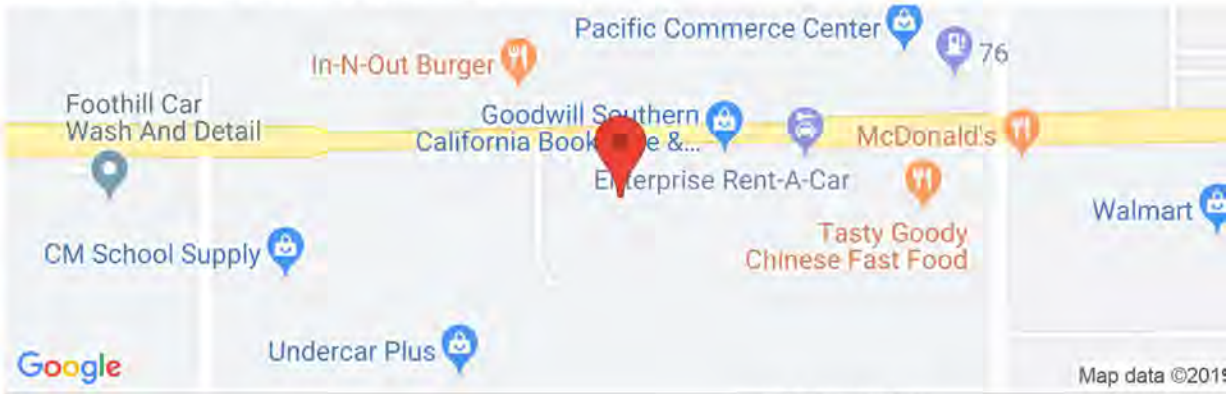
SoCalGeo

SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX E

OSHPD

Latitude, Longitude: 34.106236, -117.685096



Date	10/16/2019, 1:00:17 PM
Design Code Reference Document	ASCE7-16
Risk Category	III
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.694	MCE_R ground motion. (for 0.2 second period)
S_1	0.637	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.694	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.129	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.719	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.791	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.694	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.822	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.072	Factored deterministic acceleration value. (0.2 second)
S1RT	0.637	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.698	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.675	Factored deterministic acceleration value. (1.0 second)
PGAd	0.851	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.93	Mapped value of the risk coefficient at short periods
C_{R1}	0.913	Mapped value of the risk coefficient at a period of 1 s

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

SEISMIC DESIGN PARAMETERS - 2019 CBC

PROPOSED COMMERCIAL/INDUSTRIAL DEVELOPMENT

UPLAND, CALIFORNIA

DRAWN: RF
CHKD: RGT

SCG PROJECT
21G111-1

PLATE E-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL

APPENDIX F

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-1

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: 4 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					3± inches Asphaltic concrete, no discernible Aggregate base							
		16			FILL: Brown Silty fine Sand, little medium to coarse Sand, little fine to coarse Gravel, trace Asphaltic concrete fragments, medium dense-moist		8					
		50			ALLUVIUM Gray Brown fine to coarse Sand, little fine to coarse gravel, very dense-dry to damp		2					
5												
		69			Gray fine to coarse Sandy Gravel, occasional Cobbles, very dense-dry to damp		2					
					Boring Terminated at 7½ feet due to refusal on very dense Cobbles							

TBL 19G216.GPJ SOCALGEO.GDT 2/12/21

TEST BORING LOG

PLATE B-1

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-2

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: 11 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
0					ALLUVIUM Light Gray Gravelly fine to coarse Sand, occasional to extensive Cobbles, trace Silt, dense to very dense-dry to damp							
		50/3"					1					
		45					2					
5												
		50/5"										No Sample Recovery
		62					2					
10												
		78/11"					2					
15					Boring Terminated at 15 feet							

TBL 19G216.GPJ SOCALGEO.GDT 2/12/21

TEST BORING LOG

PLATE B-2

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-3

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: --
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
					7± inch PCC pavement							
					POSSIBLE FILL:Dark Gray Brown Gravelly fine to coarse Sand, little Silt, dense-damp		4					
					Boring Terminated at 2 feet due to refusal on very dense Cobbles							

TBL 19G216.GPJ SOCALGEO.GDT 2/12/21

TEST BORING LOG **PLATE B-3**

SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

BORING NO. B-4

JOB NO.: 19G216
PROJECT: Proposed Warehouse
LOCATION: Upland, California

DRILLING DATE: 10/9/19
DRILLING METHOD: Hollow Stem Auger
LOGGED BY: Jaime Hayward

WATER DEPTH: Dry
CAVE DEPTH: 7 feet
READING TAKEN: At Completion

FIELD RESULTS						LABORATORY RESULTS						
DEPTH (FEET)	SAMPLE	BLOW COUNT	POCKET PEN. (TSF)	GRAPHIC LOG	DESCRIPTION SURFACE ELEVATION: -- MSL	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	LIQUID LIMIT	PLASTIC LIMIT	PASSING #200 SIEVE (%)	ORGANIC CONTENT (%)	COMMENTS
		70/11"			FILL: Brown Silty fine Sand, trace to little medium to coarse Sand, trace fine to coarse Gravel, very dense-damp		3					
		67/11"			POSSIBLE FILL Dark Gray Brown Gravelly fine to coarse Sand, little Silt, very dense-damp to moist		7					
5												
		64			ALLUVIUM Light Gray Brown Gravelly fine to coarse Sand, extensive Cobbles, very dense-damp		2					
		67					3					
10												
					Boring Terminated at 11 feet due to refusal on very dense Cobbles							

TBL 19G216.GPJ SOCALGEO.GDT 2/12/21

TEST BORING LOG

PLATE B-4

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-1

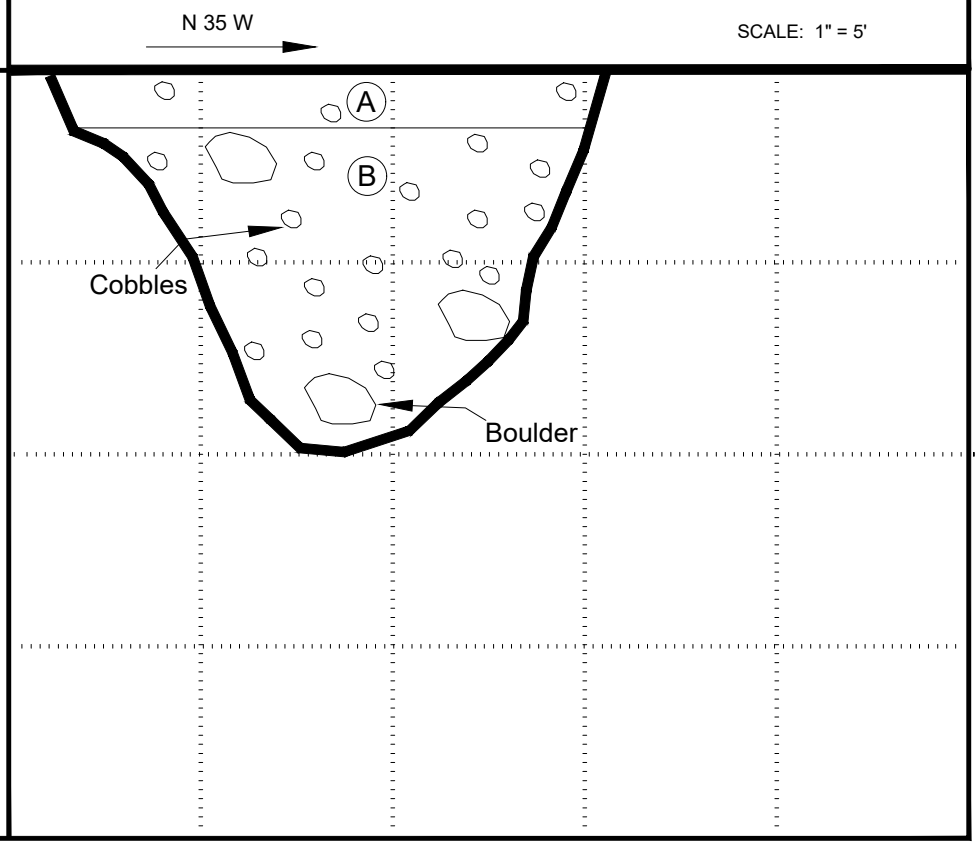
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 35 W
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
5	b			A: FILL: Brown Silty fine to medium Sand, some fine to coarse Gravel, medium dense-damp
	b			B: ALLUVIUM: Brown fine to coarse Sand, abundant Cobbles, abundant Boulders, very dense-dry
	b			
10	b			Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-5

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-2

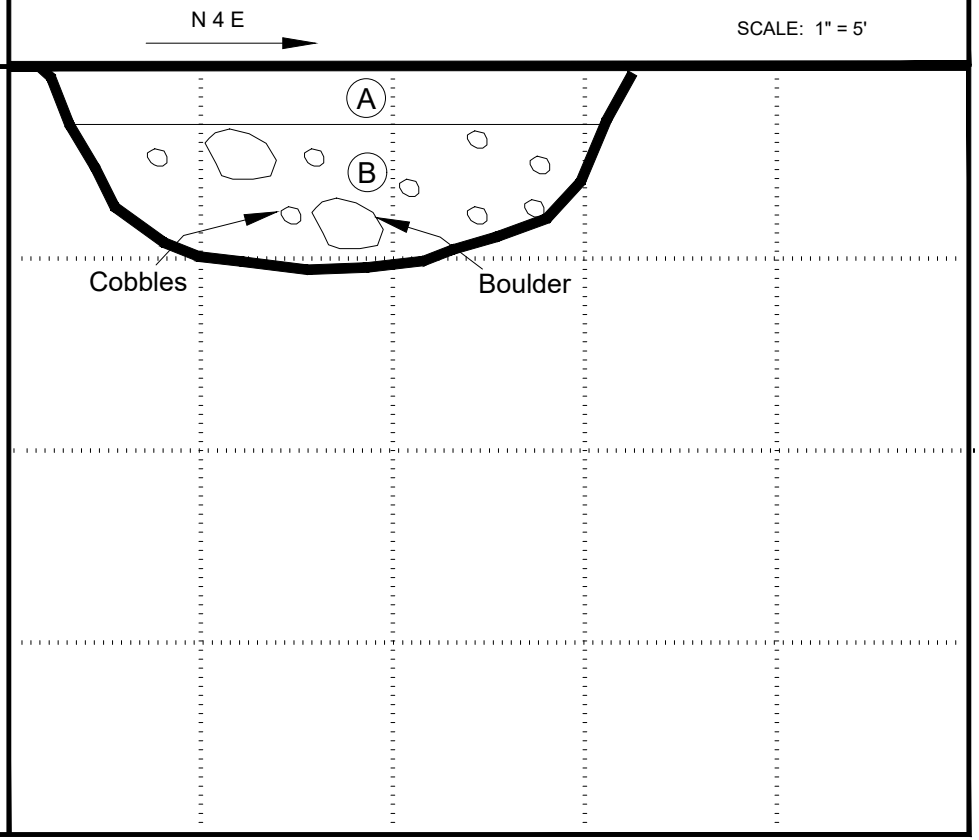
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 4 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b			A: FILL: Brown Silty fine Sand, some medium Sand, trace fine to coarse Gravel, medium dense-moist
	b			B: ALLUVIUM: Brown fine Sand, abundant Cobbles, abundant Boulders, some fine to coarse Gravel, very dense-moist
5	b			Trench Terminated @ 5.5 feet
10				
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-6

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-3

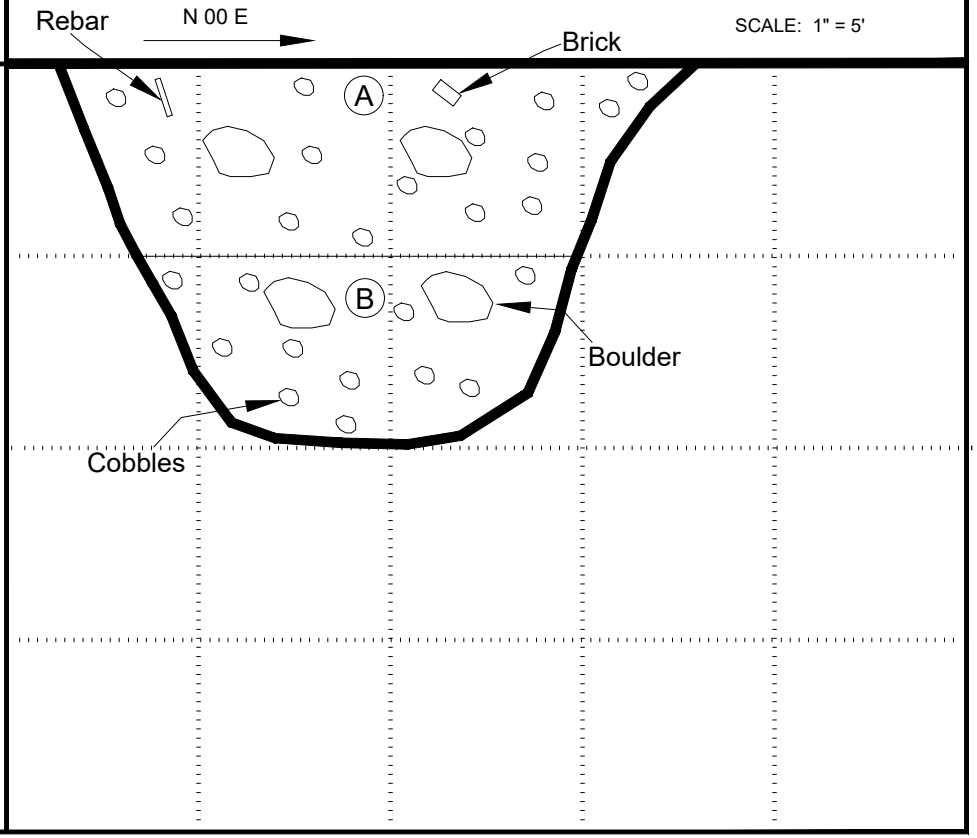
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 00 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
	b			A: FILL: Brown Silty fine Sand, some fine to coarse Gravel, abundant Cobbles, abundant Boulders, some Brick fragments, trace rebar, very dense-damp
5	b			
	b			B: ALLUVIUM: Brown fine to coarse Sand, abundant Cobbles, abundant Boulders, some fine to coarse Gravel, very dense-damp
10	b			Trench Terminated @ 10 feet
15				

GRAPHIC REPRESENTATION



KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-7

SOUTHERN CALIFORNIA GEOTECHNICAL

TRENCH NO. T-4

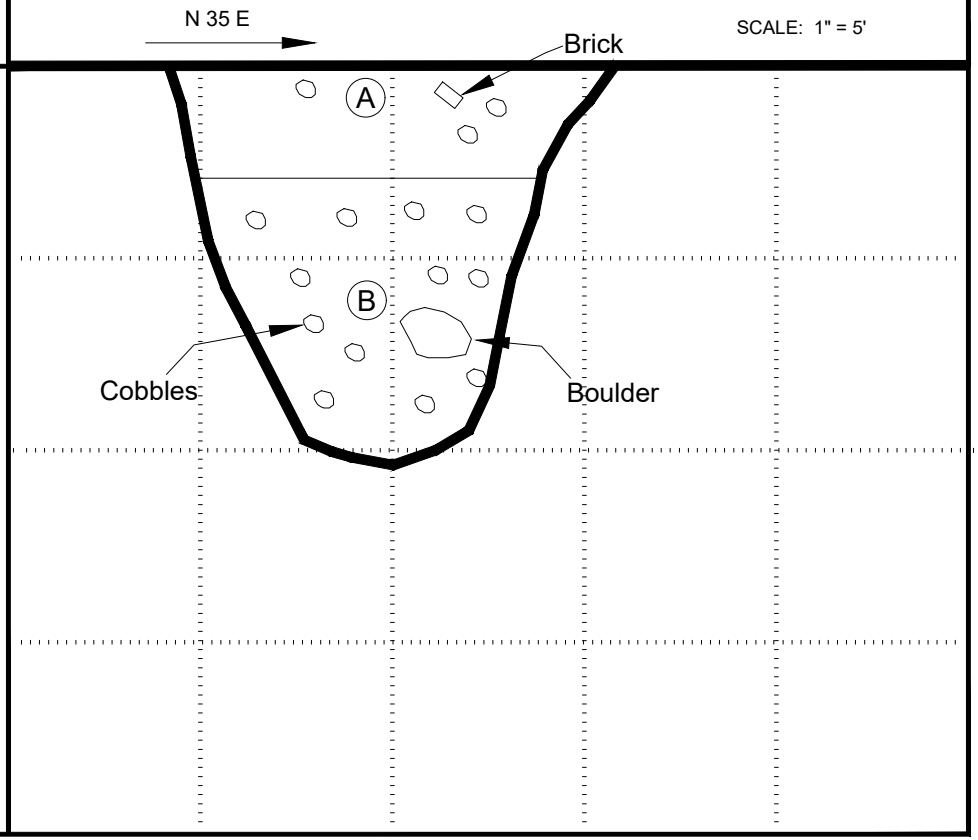
JOB NO.: 19G216-1
PROJECT: Proposed Warehouse
LOCATION: Upland, CA
DATE: 10-9-2019

EQUIPMENT USED: Backhoe
LOGGED BY: Scott McCann
ORIENTATION: N 35 E
TOP OF TRENCH ELEVATION: ----

WATER DEPTH: Dry
SEEPAGE DEPTH: Dry
READINGS TAKEN: At Completion

DEPTH	SAMPLE	DRY DENSITY (PCF)	MOISTURE (%)	EARTH MATERIALS DESCRIPTION
5	b			A: FILL: Dark Gray Brown Silty fine to coarse Sand, some fine to coarse Gravel, occasional Cobbles, abundant Boulders, trace Brick fragments, trace plastic, medium dense to dense-dry to damp
	b			
	b			
	b			B: ALLUVIUM: Light Gray Brown fine to coarse Sandy Gravel, abundant Cobbles, occasional Boulders, very dense-dry to damp
	b			
10	b			Trench Terminated @ 10.5 feet
15				

GRAPHIC REPRESENTATION

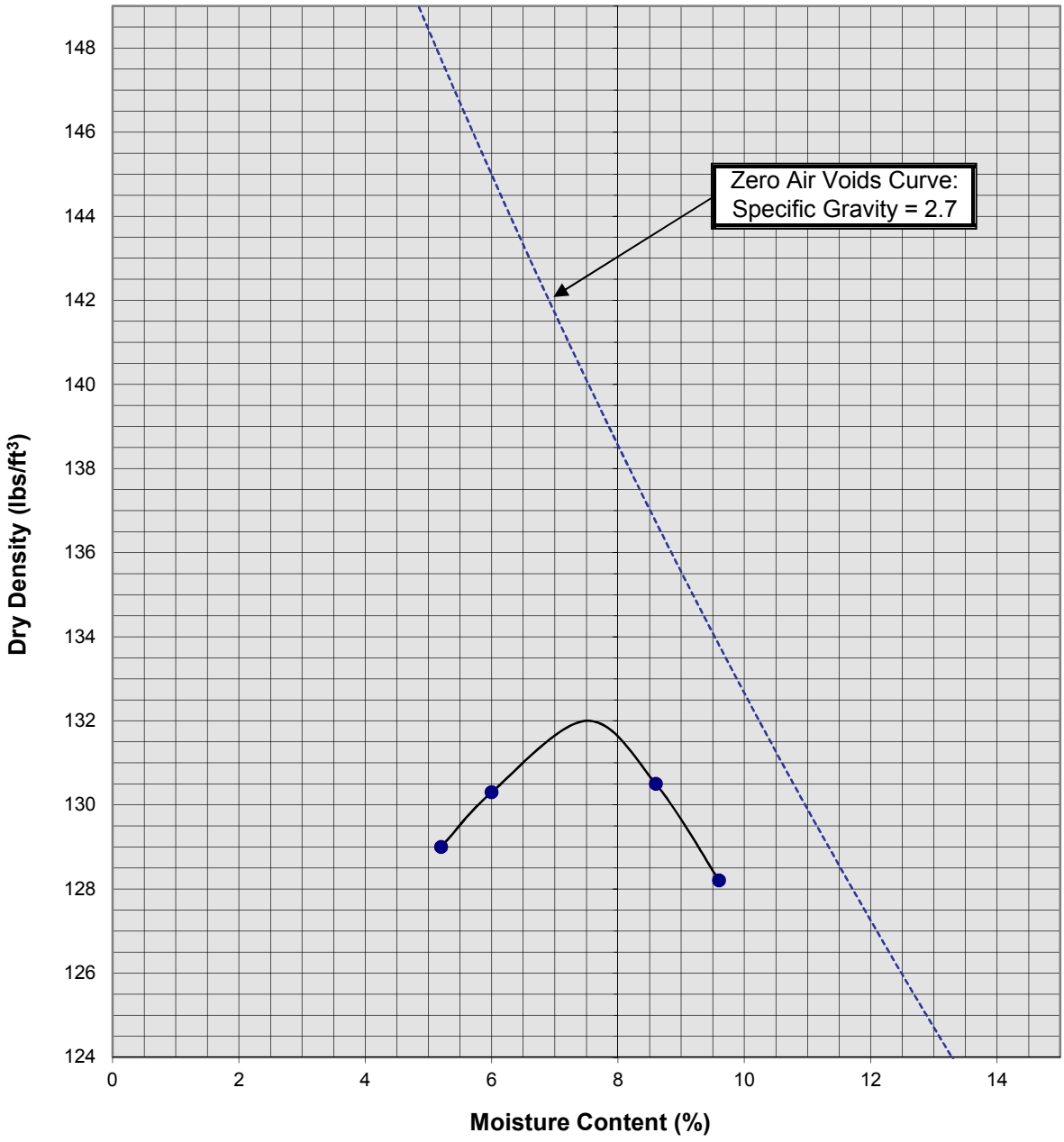


KEY TO SAMPLE TYPES:
B - BULK SAMPLE (DISTURBED)
R - RING SAMPLE 2-1/2" DIAMETER (RELATIVELY UNDISTURBED)

TRENCH LOG

PLATE B-8

Moisture/Density Relationship
ASTM D-1557



Soil ID Number	B-1 @ 0-5'
Optimum Moisture (%)	7.5
Maximum Dry Density (pcf)	132
Soil Classification	Light Gray Brown Silty fine to coarse Sand, little fine to coarse Gravel

Proposed Warehouse
Upland, California
Project No. 19G216-1
PLATE C-1

SoCalGeo
SOUTHERN CALIFORNIA GEOTECHNICAL
A California Corporation

Attachment E

Rainfall Data (NOAA Atlas 14)

NOAA Atlas 14, Volume 6, Version 2
Location name: Upland, California, USA*
Latitude: 34.1068°, Longitude: -117.6839°
Elevation: 1354.93 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.124 (0.104-0.150)	0.163 (0.136-0.198)	0.215 (0.178-0.261)	0.257 (0.212-0.316)	0.316 (0.252-0.402)	0.363 (0.282-0.471)	0.411 (0.311-0.547)	0.461 (0.340-0.632)	0.531 (0.375-0.760)	0.587 (0.399-0.871)
10-min	0.178 (0.148-0.216)	0.234 (0.195-0.283)	0.308 (0.255-0.374)	0.369 (0.304-0.453)	0.454 (0.361-0.576)	0.520 (0.404-0.675)	0.589 (0.446-0.784)	0.661 (0.487-0.906)	0.761 (0.537-1.09)	0.841 (0.572-1.25)
15-min	0.215 (0.179-0.261)	0.283 (0.235-0.343)	0.372 (0.309-0.453)	0.446 (0.367-0.547)	0.548 (0.436-0.697)	0.629 (0.489-0.816)	0.712 (0.540-0.948)	0.799 (0.589-1.10)	0.920 (0.649-1.32)	1.02 (0.692-1.51)
30-min	0.316 (0.263-0.382)	0.415 (0.345-0.503)	0.546 (0.453-0.664)	0.654 (0.539-0.803)	0.805 (0.640-1.02)	0.922 (0.718-1.20)	1.04 (0.792-1.39)	1.17 (0.864-1.61)	1.35 (0.953-1.93)	1.49 (1.02-2.21)
60-min	0.477 (0.397-0.577)	0.626 (0.521-0.759)	0.824 (0.684-1.00)	0.988 (0.813-1.21)	1.21 (0.966-1.54)	1.39 (1.08-1.81)	1.58 (1.20-2.10)	1.77 (1.30-2.43)	2.04 (1.44-2.92)	2.25 (1.53-3.34)
2-hr	0.724 (0.604-0.877)	0.940 (0.783-1.14)	1.23 (1.02-1.49)	1.46 (1.20-1.79)	1.79 (1.42-2.27)	2.04 (1.59-2.65)	2.30 (1.74-3.06)	2.57 (1.90-3.53)	2.95 (2.08-4.22)	3.25 (2.21-4.82)
3-hr	0.919 (0.766-1.11)	1.19 (0.989-1.44)	1.54 (1.28-1.88)	1.83 (1.51-2.25)	2.23 (1.78-2.84)	2.55 (1.98-3.31)	2.87 (2.17-3.82)	3.20 (2.36-4.39)	3.67 (2.59-5.25)	4.04 (2.75-5.99)
6-hr	1.33 (1.11-1.61)	1.71 (1.42-2.07)	2.21 (1.84-2.69)	2.63 (2.16-3.22)	3.20 (2.54-4.06)	3.64 (2.83-4.72)	4.09 (3.11-5.45)	4.57 (3.37-6.27)	5.22 (3.69-7.48)	5.74 (3.91-8.52)
12-hr	1.76 (1.47-2.13)	2.28 (1.90-2.77)	2.97 (2.47-3.61)	3.54 (2.91-4.34)	4.32 (3.44-5.49)	4.93 (3.84-6.40)	5.56 (4.22-7.40)	6.21 (4.58-8.52)	7.11 (5.02-10.2)	7.82 (5.32-11.6)
24-hr	2.46 (2.18-2.84)	3.24 (2.87-3.74)	4.28 (3.77-4.95)	5.13 (4.49-5.99)	6.32 (5.35-7.61)	7.25 (6.01-8.91)	8.20 (6.64-10.3)	9.20 (7.25-11.9)	10.6 (8.01-14.3)	11.7 (8.54-16.3)
2-day	3.09 (2.73-3.56)	4.14 (3.66-4.78)	5.56 (4.90-6.43)	6.74 (5.89-7.86)	8.39 (7.10-10.1)	9.69 (8.04-11.9)	11.0 (8.94-13.9)	12.5 (9.83-16.2)	14.5 (10.9-19.5)	16.1 (11.7-22.4)
3-day	3.38 (2.99-3.90)	4.59 (4.06-5.30)	6.23 (5.50-7.21)	7.61 (6.65-8.87)	9.53 (8.07-11.5)	11.1 (9.18-13.6)	12.7 (10.3-16.0)	14.4 (11.3-18.6)	16.7 (12.7-22.6)	18.7 (13.6-26.0)
4-day	3.66 (3.24-4.21)	5.01 (4.43-5.78)	6.85 (6.04-7.92)	8.39 (7.34-9.79)	10.6 (8.94-12.7)	12.3 (10.2-15.1)	14.1 (11.4-17.8)	16.0 (12.6-20.7)	18.7 (14.1-25.2)	20.9 (15.3-29.1)
7-day	4.15 (3.68-4.78)	5.77 (5.10-6.66)	7.97 (7.03-9.22)	9.82 (8.59-11.5)	12.4 (10.5-15.0)	14.5 (12.0-17.8)	16.6 (13.5-21.0)	18.9 (14.9-24.5)	22.2 (16.8-29.9)	24.8 (18.1-34.6)
10-day	4.48 (3.97-5.17)	6.28 (5.55-7.25)	8.72 (7.69-10.1)	10.8 (9.42-12.6)	13.6 (11.6-16.4)	15.9 (13.2-19.6)	18.4 (14.9-23.1)	20.9 (16.5-27.1)	24.5 (18.5-33.1)	27.4 (20.0-38.2)
20-day	5.37 (4.75-6.19)	7.57 (6.70-8.74)	10.6 (9.33-12.2)	13.1 (11.5-15.3)	16.7 (14.2-20.1)	19.6 (16.3-24.1)	22.6 (18.3-28.5)	25.9 (20.4-33.5)	30.4 (23.0-41.1)	34.1 (25.0-47.7)
30-day	6.30 (5.58-7.26)	8.84 (7.82-10.2)	12.3 (10.9-14.3)	15.3 (13.4-17.9)	19.5 (16.5-23.5)	22.9 (19.0-28.2)	26.5 (21.5-33.4)	30.4 (23.9-39.4)	35.9 (27.1-48.4)	40.3 (29.5-56.3)
45-day	7.53 (6.66-8.68)	10.4 (9.23-12.0)	14.5 (12.7-16.7)	17.9 (15.6-20.9)	22.8 (19.3-27.5)	26.8 (22.2-33.0)	31.1 (25.2-39.1)	35.6 (28.1-46.2)	42.2 (31.9-56.9)	47.5 (34.7-66.3)
60-day	8.77 (7.77-10.1)	12.0 (10.6-13.8)	16.4 (14.5-19.0)	20.2 (17.7-23.6)	25.7 (21.8-31.0)	30.2 (25.1-37.2)	35.1 (28.4-44.2)	40.3 (31.7-52.1)	47.7 (36.1-64.4)	53.9 (39.4-75.2)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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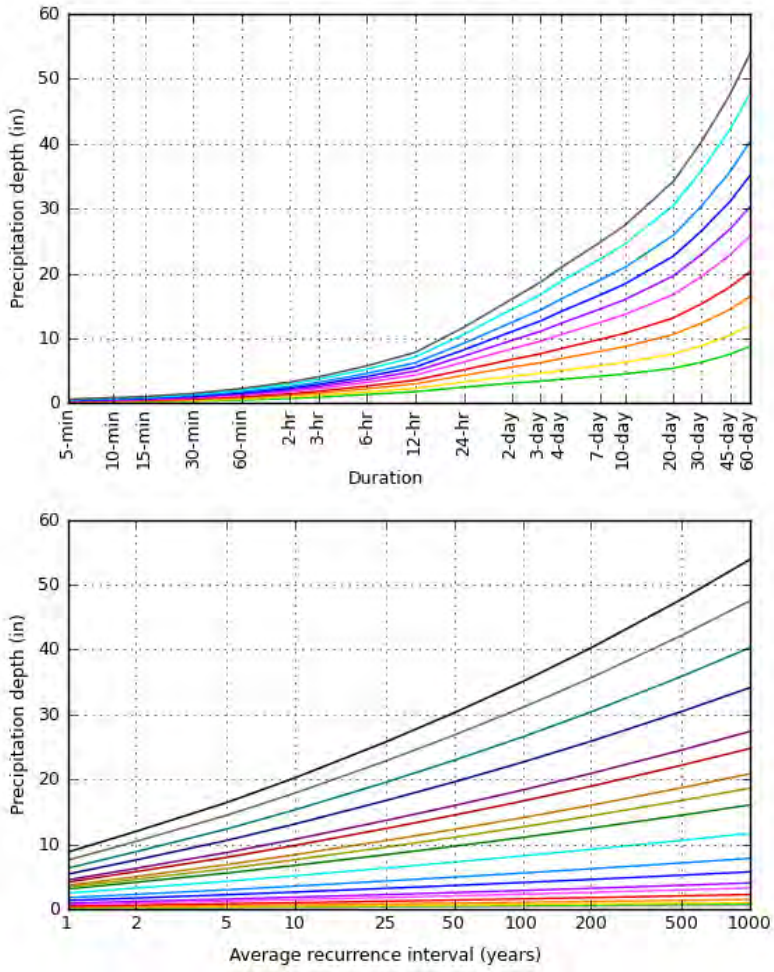
PF graphical

PDS-based depth-duration-frequency (DDF) curves
Latitude: 34.1068°, Longitude: -117.6839°



NOAA Atlas 14, Volume 6, Version 2

Created (GMT): Thu Mar 17 16:11:56 2022

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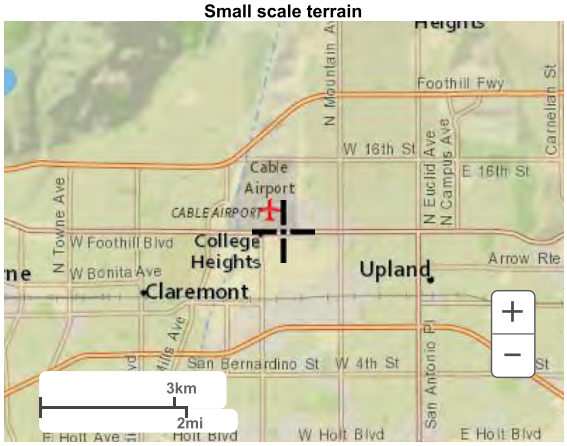
Maps & aerials

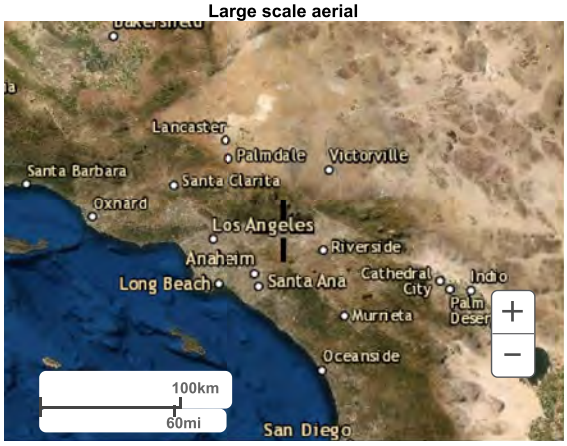
Small scale terrain



Large scale terrain

Large scale map

Large scale aerial



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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

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MEMORANDUM

DATE: July 10, 2023

TO: Rick Martinez, Magellan Value Partners

FROM: Jason Lui, Associate/Senior Noise Specialist

SUBJECT: Noise and Vibration Impact Analysis for the West Foothill Development Project in Upland, California (LSA Project No. MVP2201)

INTRODUCTION

LSA prepared this noise and vibration impact analysis to evaluate the potential noise and vibration impacts and reduction measures associated with the West Foothill Development Project (project) in Upland, California. This report is intended to satisfy the City of Upland's (City) requirements and the California Environmental Quality Act (CEQA) for a project-specific noise and vibration impact analysis by examining the impacts of the proposed uses on the project site and evaluating the reduction measures that the project requires. All references cited in this memorandum are included in Attachment A.

Project Location

The 6.05-acre project site is at 1780 West Foothill Boulevard in Upland, San Bernardino County, on Assessor's Parcel Numbers 1007-091-01; 1007-091-02; and 1007-091-03. The site is between Central Avenue and North Benson Avenue, bounded to the north by Foothill Boulevard. The property is zoned Commercial/Industrial Mixed-use (C/I-MU.) Figure 1 shows the regional and project location (all figures are provided in Attachment B of this document).

Project Description

The project consists of demolition of approximately 19,000 square feet of existing structures and a septic tank on site and construction of one 3,570 square-foot restaurant with drive-through and up to 94,435 square feet of warehouse space divided into two buildings, each up to 40 feet (ft) in height, that include up to 10,000 square feet of combined office space and a total of 12 loading docks.[1] The building setbacks consist of 50 ft from the front of the project site along Foothill Boulevard, 10 ft from the neighboring properties to the west and south, and 60 ft from the

[1] This analysis evaluates the proposed warehouse buildings with a combined 101,092 square feet of space while the latest plans dated February 9, 2023 and submitted to the City indicate the proposed warehouse space totals 94,435 square feet. Accordingly, the analysis assumes a greater square footage than proposed and therefore discloses potentially greater environmental effects than would occur under the proposed project.

neighboring property to the east. The proposed restaurant and warehouse buildings are speculative, but the warehouses would not include cold storage during operations.

The project includes 213 parking stalls, which include 10 Americans with Disabilities Act-compliant parking stalls, and 25 clean air vehicle parking stalls. The project site would also include 48 bicycle parking spaces, 2 motorcycle parking spaces, 2 loading parking spaces, and 6 designated parking spaces for restaurant patrons ordering "curbside" service. The project includes a total of 39,469 square feet of landscaping.

Construction of the project would commence in late 2023 and continue for approximately 12 months. Grading activities would result in approximately 12,403 cubic yards of soil export and 61,158 cubic yards of soil import (48,755 cubic yards of soil import overall). Figure 2 shows the site plan.

CHARACTERISTICS OF SOUND

Noise is usually defined as unwanted sound. Noise consists of any sound that may produce physiological or psychological damage and/or interfere with communication, work, rest, recreation, and sleep.

To the human ear, sound has two significant characteristics: pitch and loudness. Pitch is generally an annoyance, whereas loudness can affect the ability to hear. Pitch is the number of complete vibrations, or cycles per second, of a wave resulting in the tone's range from high to low. Loudness is the strength of a sound that describes a noisy or quiet environment and is measured by the amplitude of the sound wave. Loudness is determined by the intensity of the sound waves combined with the reception characteristics of the human ear. Sound intensity refers to how hard the sound wave strikes an object, which in turn produces the sound's effect. This characteristic of sound can be precisely measured with instruments. The analysis of a project defines the noise environment of the project area in terms of sound intensity and its effect on adjacent sensitive land uses.

Measurement of Sound

Sound intensity is measured through the A-weighted scale to correct for the relative frequency response of the human ear. That is, an A-weighted noise level deemphasizes low and very high frequencies of sound similar to the human ear's de-emphasis of these frequencies. Decibels (dB), unlike the linear scale (e.g., inches or pounds), are measured on a logarithmic scale, which is a scale based on powers of 10.

For example, 10 decibels is 10 times more intense than 0 dB, 20 dB is 100 times more intense than 0 dB, and 30 dB is 1,000 times more intense than 0 dB. Thirty decibels (30 dB) represents 1,000 times as much acoustic energy as 0 dB. The decibel scale increases as the square of the change, representing the sound pressure energy. A sound as soft as human breathing is about 10 times greater than 0 dB. The decibel system of measuring sound gives a rough connection between the physical intensity of sound and its perceived loudness to the human ear. A 10 dB increase in sound level is perceived by the human ear as only a doubling of the loudness of the sound. Ambient sounds generally range from 30 dB (very quiet) to 100 dB (very loud).

Sound levels are generated from a source, and their decibel level decreases as the distance from that source increases. Sound dissipates exponentially with distance from the noise source. For a single point source, sound levels decrease approximately 6 dB for each doubling of distance from the source. This drop-off rate is appropriate for noise generated by stationary equipment. If noise is produced by a line source (e.g., highway traffic or railroad operations), the sound decreases 3 dB for each doubling of distance in a hard site environment; however, line source noise in a relatively flat environment with absorptive vegetation decreases 4.5 dB for each doubling of distance.

There are many ways to rate noise for various time periods, but an appropriate rating of ambient noise affecting humans also accounts for the annoying effects of sound. The equivalent continuous sound level (L_{eq}) is the total sound energy of time-varying noise over a sample period. However, the predominant rating scales for human communities in the State of California are the L_{eq} and community noise equivalent level (CNEL) or the day-night average noise level (L_{dn}) based on A-weighted decibels (dBA). CNEL is the time-varying noise over a 24-hour period, with a 5 dBA weighting factor applied to the hourly L_{eq} for noises occurring from 7:00 p.m. to 10:00 p.m. (defined as relaxation hours), and a 10 dBA weighting factor applied to noises occurring from 10:00 p.m. to 7:00 a.m. (defined as sleeping hours). L_{dn} is similar to the CNEL scale but without the adjustment for events occurring during the evening hours. CNEL and L_{dn} are within 1 dBA of each other and are normally interchangeable. The City uses the CNEL noise scale for long-term noise impact assessment.

Other noise rating scales of importance when assessing the annoyance factor include the maximum noise level (L_{max}), which is the highest exponential time-averaged sound level that occurs during a stated time period. The noise environments discussed in this analysis for short-term noise impacts are specified in terms of maximum levels denoted by L_{max}, which reflects peak operating conditions and addresses the annoying aspects of intermittent noise. L_{max} is often used together with another noise scale, or noise standards in terms of percentile noise levels, in noise ordinances for enforcement purposes. For example, the L_{10} noise level represents the noise level exceeded 10 percent of the time during a stated period. The L_{50} noise level represents the median noise level. Half the time the noise level exceeds this level, and half the time, it is less than this level. The L_{90} noise level represents the noise level exceeded 90 percent of the time and is considered the background noise level during a monitoring period. For a relatively constant noise source, the L_{eq} and L_{50} are approximately the same.

Noise impacts can be described in three categories. The first category includes audible impacts that refer to increases in noise levels noticeable to humans. Audible increases in noise levels generally refer to a change of 3 dB or greater because this level has been found to be barely perceptible in exterior environments. The second category, potentially audible, refers to a change in the noise level between 1 dB and 3 dB. This range of noise levels has been found to be noticeable only in laboratory environments. The last category includes changes in noise levels of less than 1 dB, which are inaudible to the human ear. Only audible changes in existing ambient or background noise levels are considered potentially significant.

Physiological Effects of Noise

Physical damage to human hearing begins at prolonged exposure to noise levels higher than 85 dBA. Exposure to high noise levels affects the entire system, with prolonged noise exposure in excess of 75 dBA increasing body tensions, thereby affecting blood pressure and functions of the heart and

the nervous system. In comparison, extended periods of noise exposure above 90 dBA would result in permanent cell damage. When the noise level reaches 120 dBA, a tickling sensation occurs in the human ear, even with short-term exposure. This level of noise is called the threshold of feeling. As the sound reaches 140 dBA, the tickling sensation is replaced by the feeling of pain in the ear (the threshold of pain). A sound level of 160–165 dBA will result in dizziness or loss of equilibrium. The ambient or background noise problem is widespread and generally more concentrated in urban areas than in outlying, less developed area. Table A lists definitions of acoustical terms, and Table B shows common sound levels and their sources.

Table A: Definitions of Acoustical Terms

Term	Definition
Decibel, dB	A unit of noise level that denotes the ratio between two quantities that are proportional to power; the number of decibels is 10 times the logarithm (to the base 10) of this ratio.
Frequency, Hz	Of a function periodic in time, the number of times that the quantity repeats itself in 1 second (i.e., number of cycles per second).
A-Weighted Sound Level, dBA	The sound level obtained by use of A-weighting. The A-weighting filter de-emphasizes the very-low-frequency and very-high-frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise. (All sound levels in this report are A-weighted unless reported otherwise.)
L_2, L_8, L_{50}, L_{90}	The fast A-weighted noise levels that are equaled or exceeded by a fluctuating sound level 2 percent, 8 percent, 50 percent, and 90 percent of a stated time period.
Equivalent Continuous Sound Level, L_{eq}	The level of a steady sound that, in a stated time period and at a stated location, has the same A-weighted sound energy as the time-varying sound.
Community Noise Equivalent Level, CNEL	The 24-hour A-weighted average sound level from midnight to midnight, obtained after the addition of 5 dB to sound levels occurring in the evening from 7:00 p.m. to 10:00 p.m. and after the addition of 10 dB to sound levels occurring in the night between 10:00 p.m. and 7:00 a.m.
Day/Night Average Noise Level, L_{dn}	The 24-hour A-weighted average sound level from midnight to midnight, obtained after the addition of 10 dB to sound levels occurring in the night between 10:00 p.m. and 7:00 a.m.
L_{max}, L_{min}	The maximum and minimum A-weighted sound levels measured on a sound level meter during a designated time interval using fast time averaging.
Ambient Noise Level	The all-encompassing noise associated with a given environment at a specified time; usually a composite of sound from many sources from many directions, near and far; no particular sound is dominant.
Intrusive	The noise that intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends on its amplitude, duration, frequency, time of occurrence, and tonal or informational content, as well as the prevailing ambient noise level.

Source: *Handbook of Acoustical Measurement and Noise Control* (Harris 1991).

Table B: Common Sound Levels and Their Noise Sources

Noise Source	A-Weighted Sound Level in Decibels	Noise Environments	Subjective Evaluations
Near Jet Engine	140	Deafening	128 times as loud
Civil Defense Siren	130	Threshold of Pain	64 times as loud
Hard Rock Band	120	Threshold of Feeling	32 times as loud
Accelerating Motorcycle a Few Feet Away	110	Very Loud	16 times as loud
Pile Driver; Noisy Urban Street/Heavy City Traffic	100	Very Loud	8 times as loud
Ambulance Siren; Food Blender	95	Very Loud	—
Garbage Disposal	90	Very Loud	4 times as loud
Freight Cars; Living Room Music	85	Loud	—
Pneumatic Drill; Vacuum Cleaner	80	Loud	2 times as loud
Busy Restaurant	75	Moderately Loud	—
Near-Freeway Auto Traffic	70	Moderately Loud	Reference Level
Average Office	60	Quiet	½ as loud
Suburban Street	55	Quiet	—
Light Traffic; Soft Radio Music in Apartment	50	Quiet	¼ as loud
Large Transformer	45	Quiet	—
Average Residence without Stereo Playing	40	Faint	⅛ as loud
Soft Whisper	30	Faint	—
Rustling Leaves	20	Very Faint	—
Human Breathing	10	Very Faint	Threshold of Hearing
—	0	Very Faint	—

Source: Compiled by LSA Associates, Inc. (2004).

FUNDAMENTALS OF VIBRATION

Vibration refers to ground-borne noise and perceptible motion. Ground-borne vibration is almost exclusively a concern inside buildings and is rarely perceived as a problem outdoors, where the motion may be discernible, but without the effects associated with the shaking of a building there is less adverse reaction. Vibration energy propagates from a source through intervening soil and rock layers to the foundations of nearby buildings. The vibration then propagates from the foundation throughout the remainder of the structure. Building vibration may be perceived by occupants as the motion of building surfaces, the rattling of items sitting on shelves or hanging on walls, or a low-frequency rumbling noise. The rumbling noise is caused by the vibration of walls, floors, and ceilings that radiate sound waves. Although the perceptibility threshold is approximately 65 vibration velocity decibels (VdB), human response to vibration is not usually substantial unless the vibration exceeds 70 VdB. A vibration level that causes annoyance is well below the damage risk threshold for typical buildings.

Typical sources of ground-borne vibration are construction activities (e.g., blasting, pile driving, and operating heavy-duty earthmoving equipment), steel-wheeled trains, and occasional traffic on rough roads. Problems with both ground-borne vibration and noise from these sources are usually localized to areas within approximately 100 ft from the vibration source, although there are examples of ground-borne vibration causing interference out to distances greater than 200 ft (Transit Noise and Vibration Impact Assessment Manual [FTA 2018]). When roadways are smooth, vibration from traffic, even heavy trucks, is rarely perceptible. It is assumed for most projects that the roadway surface will be smooth enough that ground-borne vibration from street traffic will not

exceed the impact criteria; however, both construction of the project and freight train operations could result in ground-borne vibration that may be perceptible and annoying.

Ground-borne noise is not likely to be a problem because noise arriving via the normal airborne path will usually be greater than ground-borne noise. Ground-borne vibration has the potential to disturb people and damage buildings. Although it is very rare for train-induced ground-borne vibration to cause even cosmetic building damage, it is not uncommon for construction processes (e.g., blasting and pile driving) to cause vibration of sufficient amplitudes to damage nearby buildings (FTA 2018). Ground-borne vibration is usually measured in terms of vibration velocity, either the root-mean-square (RMS) velocity or peak particle velocity (PPV). The RMS velocity is best for characterizing human response to building vibration, and PPV is used to characterize potential for damage. Decibel notation acts to compress the range of numbers required to describe vibration. The vibration velocity level in decibels is defined as the following:

$$L_v = 20 \log_{10} [V/V_{ref}]$$

where L_v is the vibration velocity in decibels (VdB), V is the RMS velocity amplitude, and V_{ref} is the reference velocity amplitude, or 1 x 10^{-6} inches/second (in/sec) used in the United States.

REGULATORY SETTING

Federal Guidelines

Federal Transit Administration

Vibration standards included in the FTA Transit Noise and Vibration Impact Assessment Manual (FTA 2018) were used in this analysis because the City of Upland does not have vibration standards. Table C provides the criteria for assessing the potential for interference or annoyance from vibration levels in a building while Table D lists the potential vibration building damage criteria associated with construction activities.

Table C: Interpretation of Vibration Criteria for Detailed Analysis

Land Use	Maximum L_v (VdB)[1]	Description of Use
Workshop	90	Vibration that is distinctly felt. Appropriate for workshops and similar areas not as sensitive to vibration.
Office	84	Vibration that can be felt. Appropriate for offices and similar areas not as sensitive to vibration.
Residential Day	78	Vibration that is barely felt. Adequate for computer equipment and low-power optical microscopes (up to 20X).
Residential Night and Operating Rooms	72	Vibration is not felt, but ground-borne noise may be audible inside quiet rooms. Suitable for medium-power microscopes (100X) and other equipment of low sensitivity.

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).

[1] As measured in ⅓-octave bands of frequency over the frequency range 8 to 80 Hertz.

FTA = Federal Transit Administration VdB = vibration velocity decibels

L_V = velocity in decibels

Table D: Construction Vibration Damage Criteria

Building Category	PPV (in/sec)	Approximate L_V (VdB)[1]
Reinforced concrete, steel, or timber (no plaster)	0.50	102
Engineered concrete and masonry (no plaster)	0.30	98
Non-engineered timber and masonry buildings	0.20	94
Buildings extremely susceptible to vibration damage	0.12	90

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).

[1] RMS vibration velocity in decibels (VdB) re 1 µin/sec.

µin/sec = microinches per second
FTA = Federal Transit Administration
in/sec = inches per second
L_V = velocity in decibels
PPV = peak particle velocity
VdB = vibration velocity decibels
RMS = root-mean-square

Local Regulations

City of Upland

General Plan Safety Element. The City's General Plan Noise Safety Element has established exterior noise compatibility standards that is regarded as "normally acceptable" for various land uses and contains policies to meet the City's noise-related goals. The applicable General Plan Safety Element policies for the proposed project are listed below.

Policy SAF-1.1: **Exterior Noise Standards.** Require noise mitigation for all development where the projected exterior noise levels exceed those shown in SAF-1[1], to the extent feasible.

Policy SAF-1.2: **Exterior Incremental Noise Standards.** Require noise mitigation for all development that increases existing noise levels by more than the allowable increment shown in Table SAF-4[2], to the extent feasible

Policy SAF-1.3: **Interior Noise Standards.** Require new development to include noise mitigation to assure acceptable interior noise levels appropriate to the land use type: 45 dBA L_{dn} for residential, transient lodgings, hospitals, nursing homes, and other uses where people normally sleep; and 45 dBA L_{dn} (peak hour) for office buildings and similar uses.

Policy SAF-1.8: **Vibration Screening Distances.** Require new residential and commercial projects located adjacent to major freeways, rail lines or other vibration sources to follow the Federal Transit Administration screening distance criteria.

Policy SAF-1.9: **Alternative to Sound Walls.** Encourage the use of design strategies and other noise reduction methods along transportation corridors in lieu of sound walls to mitigate noise impacts and enhance aesthetics.

[1] Table E of this memorandum.
[2] Table F of this memorandum.

Policy SAF-1.11: **Construction Noise.** Require construction projects to adhere to the City's construction hours and incorporate measures to minimize impacts.

Policy SAF-1.12: **Operational Noise.** Require mixed-use, commercial, and industrial projects to mitigate operational noise impacts to adjoining sensitive uses to meet operational noise thresholds.

Table E: Exterior Noise Compatibility Standards

Land Use Type	Highest Level of Noise Exposure that is Regarded as "Normally Acceptable" (L_{dn} of CNEL)
Residential – Low Density Single-Family, Duplex, Mobile Homes	60 dBA
Residential – Multi-Family	65 dBA
Mixed-Use	70 dBA
Transient Lodging – Hotels, Motels	65 dBA
Schools, Libraries, Churches, Hospitals, Nursing Homes	70 dBA
Auditoriums, Concert Halls, Amphitheaters	Mitigation based on site-specific study
Sports Arena, Outdoors Spectators Sports	Mitigation based on site-specific study
Playgrounds, Neighborhood Parks	70 dBA
Golf Courses, Riding Stables, Water Recreation, Cemeteries	75 dBA
Office Buildings – Commercial, Office/Professional	70 dBA
Industrial, Manufacturing, Utilities, Agriculture	75 dBA

Source: City of Upland General Plan Safety Element, Table SAF-1 (2015).
CNEL = Community Noise Equivalent Level
dBA = A-weighted decibels
L_{dn} = day-night average noise level

Table F: Exterior Incremental Noise Impact Standards for Noise-Sensitive Uses

Residences and Buildings Where People Normally Sleep		Institutional Land Uses with Primarily Daytime and Evening Uses	
Existing (L_{dn})	Allowable Noise Increment	Existing Peak Hour (L_{dn})	Allowable Noise Increment
45	8	45	12
50	5	50	9
55	3	55	6
60	2	60	5
65	1	65	3
70	1	70	3
75	0	75	1
80	0	80	0

Source: City of Upland General Plan Safety Element, Table SAF-4 (2015).
dBA = A-weighted decibels

Municipal Code. Sections 9.40.040, 9.40.070, and 9.40.080 of the City of Upland Municipal Code have established maximum noise levels for residential and non-residential properties that shall not be exceeded. It is unlawful for any person at any location to create any noise, or to allow the creation of any noise, when such noise causes the noise level to exceed any noise level shown in Table G.

Table G: City of Upland Maximum Noise Level Standards

Zone Use	Time	L_{50} (30 min)	L_{25} (15 min)	L_8 (5 min)	L_2 (1 min)	Not Permitted
Residential	10:00 PM to 7:00 AM	45	50	55	60	65
	7:00 AM to 10:00 PM	55	60	65	70	75
Uses not specified	Anytime	65	--	--	--	--
Industrial and Commercial	Anytime	75	--	--	--	--

Source: City of Upland Municipal Code (2022).
Notes: In the event any offending noise consists primarily of impact noise, repetitive noise, or simple tone noise, each of the maximum permitted noise level shall be reduced by 5 dBA.
dBA = A-weighted decibel
min = minute(s)
L_{50} = The base ambient noise level for a cumulative period of 30 minutes in any hour.
L_{25} = The base ambient noise level plus 5 dBA for a cumulative period of 15 minutes in any hour.
L_8 = The base ambient noise level plus 10 dBA for a cumulative period of 5 minutes in any hour.
L_2 = The base ambient noise level plus 15 dBA for a cumulative period of 1 minute in any hour.
Not Permitted = The base ambient noise level plus 20 dBA.

Section 9.40.100(M) of the City's 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, except in case of urgent necessity in the interest of public health and safety, and then only with a permit from the building inspector, which permit may be granted for a period not to exceed 3 days or less while the emergency continues, and which permit may be renewed for periods of 3 days or less while the emergency continues. If the building inspector should determine that the public health and safety will not be impaired by the erection, demolition, alteration or repair of any building or the excavation of streets and highways within the hours of 6:00 p.m. and 7:00 a.m., and if he or she shall further determine that loss or inconvenience would result to any party in interest, he or she may grant permission for such work to be done within the hours of 6:00 p.m. and 7:00 a.m., upon application being made at the time the permit for the work is awarded or during the progress of the work.

EXISTING SETTING

Overview of the Existing Noise Environment

The primary existing noise sources in the project area are transportation facilities. Traffic on Foothill Boulevard and other local streets contributes to the ambient noise levels in the project vicinity. Noise from motor vehicles is generated by engines, interaction between tires and the road, and vehicle exhaust systems. In addition, commercial/industrial activities contribute to the background ambient noise in the project vicinity.

Land Uses in the Project Vicinity

Land uses surrounding the project site include:

- **North:** Residential and commercial uses
- **East:** Commercial and light industrial uses
- **South:** Vacant land and commercial uses
- **West:** Industrial uses

Ambient Noise Measurements

Three long-term (24-hour) noise level measurements were conducted on January 12, 2023, using Larson Davis Spark 706RC dosimeters. Tables H, I, and J show the hourly L_{eq} , L_{max}, and L_{min} results from the long-term noise level measurements. Table K summarizes the results of the long-term noise level measurements along with a description of the measurement locations and noise sources that occurred during the measurements. As shown in Table K, the daytime noise levels ranged from 54.9 to 67.7 dBA L_{eq}, and the nighttime noise levels ranged from 50.1 to 64.7 dBA L_{eq}. The daytime maximum instantaneous noise levels ranged from 70.2 to 83.0 dBA L_{max} and the nighttime maximum instantaneous noise level ranged from 68.1 to 84.7 dBA L_{max}. Also, the calculated CNEL levels from the long-term noise level measurements at LT-1, LT-2, and LT-3 were 61.9, 63.9, and 69.4 dBA, respectively. The long-term noise level measurement survey sheets are provided in Attachment C. Figure 3 shows the long-term monitoring locations.

Existing Aircraft Noise

Cable Airport and Ontario International Airport are 0.32 mile north and 4.8 miles southeast of the project site, respectively. The project site is within the 55 to 60 dBA CNEL noise contour, based on the *Cable Airport Land Use Compatibility Plan* (City of Upland 2015). Also, the project site is outside the 60 to 65 dBA CNEL noise contour based on the *LA/Ontario International Airport Land Use Compatibility Plan* (City of Ontario 2018). There are no private airstrips within the vicinity of the project site. Therefore, the proposed project would not expose people working in the project area to excessive noise levels, and this topic is not further discussed.

Existing Traffic Noise

The guidelines included in the Federal Highway Administration (FHWA) Highway Traffic Noise Prediction Model (1977; FHWA RD-77-108) were used to evaluate highway traffic-related noise conditions along roadway segments in the project vicinity. This model requires various parameters, including traffic volumes, vehicle mix, vehicle speed, and roadway geometry to compute typical equivalent noise levels during daytime, evening, and nighttime hours. The resultant noise levels are weighted and summed over 24-hour periods to determine the CNEL values. The existing (2022) average daily traffic (ADT) volumes were obtained from the *Traffic Impact Analysis Report for the West Foothill Development Project* (LSA 2023b). The standard vehicle mix for Southern California roadways was used for traffic on these roadway segments. Table L provides the existing traffic noise levels in the project vicinity. These noise levels represent the worst-case scenario, which assumes that no shielding is provided between the traffic and the location where the noise contours are drawn. Attachment D provides the specific assumptions used in developing these noise levels and model printouts.

Table H: Long-Term (24-Hour) Noise Level Measurement Results at LT-1

Start Time		Date	Noise Level (dBA)		
			L_{eq}	L_{max}	L_{min}
1	4:00 PM	1/12/23	58.8	76.5	44.2
2	5:00 PM	1/12/23	60.8	80.4	48.4
3	6:00 PM	1/12/23	57.9	74.8	45.8
4	7:00 PM	1/12/23	56.2	76.0	47.0
5	8:00 PM	1/12/23	57.4	71.8	48.8
6	9:00 PM	1/12/23	56.6	75.4	45.7
7	10:00 PM	1/12/23	54.1	71.3	42.9
8	11:00 PM	1/12/23	54.1	71.7	42.7
9	12:00 AM	1/13/23	54.4	73.5	44.8
10	1:00 AM	1/13/23	52.1	73.6	42.3
11	2:00 AM	1/13/23	50.1	68.6	39.5
12	3:00 AM	1/13/23	50.1	68.2	39.1
13	4:00 AM	1/13/23	53.4	71.2	39.7
14	5:00 AM	1/13/23	55.0	73.1	42.6
15	6:00 AM	1/13/23	58.7	70.9	48.6
16	7:00 AM	1/13/23	61.4	77.2	47.3
17	8:00 AM	1/13/23	56.7	71.4	46.5
18	9:00 AM	1/13/23	55.1	70.4	46.3
19	10:00 AM	1/13/23	54.9	72.9	44.0
20	11:00 AM	1/13/23	56.7	72.6	42.6
21	12:00 PM	1/13/23	57.1	78.2	41.9
22	1:00 PM	1/13/23	58.7	75.1	43.4
23	2:00 PM	1/13/23	59.3	81.6	49.1
24	3:00 PM	1/13/23	58.8	75.7	49.6

Source: Compiled by LSA (2023).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum measured sound level
L_{min} = minimum measured sound level

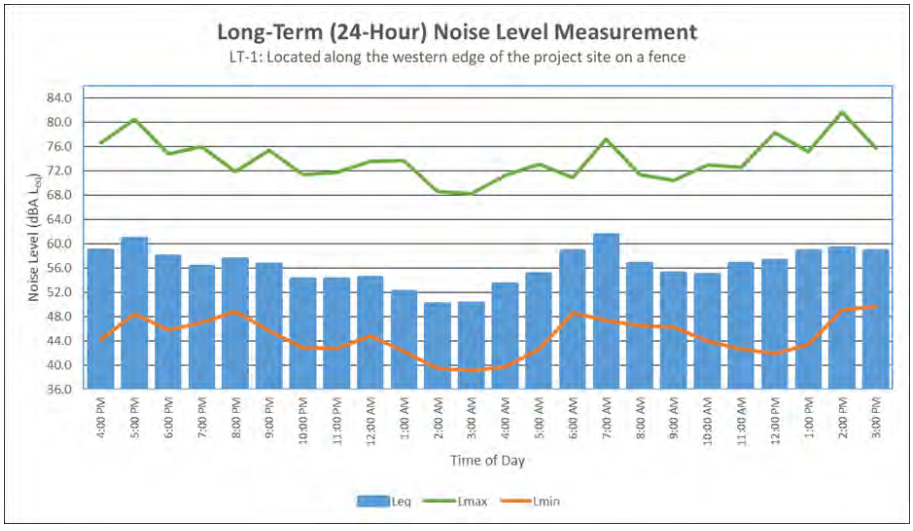

Table I: Long-Term (24-Hour) Noise Level Measurement Results at LT-2

Start Time		Date	Noise Level (dBA)		
			L_{eq}	L_{max}	L_{min}
1	4:00 PM	1/12/23	61.4	78.1	47.7
2	5:00 PM	1/12/23	62.7	80.3	51.4
3	6:00 PM	1/12/23	60.3	75.5	48.8
4	7:00 PM	1/12/23	59.6	76.3	49.3
5	8:00 PM	1/12/23	60.1	74.4	50.6
6	9:00 PM	1/12/23	59.2	73.6	48.1
7	10:00 PM	1/12/23	57.6	74.4	44.9
8	11:00 PM	1/12/23	56.0	73.2	44.4
9	12:00 AM	1/13/23	54.1	68.1	43.9
10	1:00 AM	1/13/23	54.4	75.7	42.0
11	2:00 AM	1/13/23	53.1	69.9	40.7
12	3:00 AM	1/13/23	52.8	69.6	38.4
13	4:00 AM	1/13/23	55.9	70.8	41.8
14	5:00 AM	1/13/23	56.7	76.1	42.9
15	6:00 AM	1/13/23	59.0	70.1	47.7
16	7:00 AM	1/13/23	62.2	75.5	47.6
17	8:00 AM	1/13/23	61.2	70.2	49.2
18	9:00 AM	1/13/23	60.0	70.7	48.7
19	10:00 AM	1/13/23	60.0	71.8	46.5
20	11:00 AM	1/13/23	59.9	72.2	44.6
21	12:00 PM	1/13/23	59.5	79.6	45.6
22	1:00 PM	1/13/23	60.5	74.6	48.4
23	2:00 PM	1/13/23	60.4	76.4	44.6
24	3:00 PM	1/13/23	61.3	76.9	47.8

Source: Compiled by LSA (2023).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum measured sound level
L_{min} = minimum measured sound level

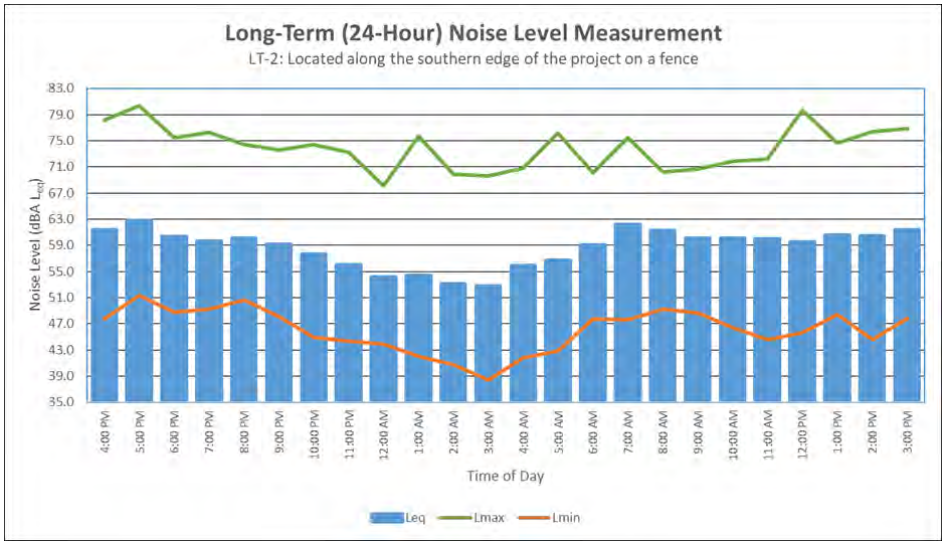

Table J: Long-Term (24-Hour) Noise Level Measurement Results at LT-3

Start Time		Date	Noise Level (dBA)		
			L_{eq}	L_{max}	L_{min}
1	4:00 PM	1/12/23	67.2	77.9	46.9
2	5:00 PM	1/12/23	67.3	81.9	51.9
3	6:00 PM	1/12/23	66.3	81.2	48.6
4	7:00 PM	1/12/23	65.7	83.0	50.9
5	8:00 PM	1/12/23	64.7	77.4	51.1
6	9:00 PM	1/12/23	64.6	82.8	48.4
7	10:00 PM	1/12/23	62.7	83.3	45.4
8	11:00 PM	1/12/23	62.0	84.7	45.3
9	12:00 AM	1/13/23	60.1	76.4	46.2
10	1:00 AM	1/13/23	57.8	77.4	43.6
11	2:00 AM	1/13/23	57.5	77.9	42.1
12	3:00 AM	1/13/23	58.1	77.7	40.0
13	4:00 AM	1/13/23	60.8	79.6	42.2
14	5:00 AM	1/13/23	62.6	82.2	45.2
15	6:00 AM	1/13/23	64.7	75.9	52.0
16	7:00 AM	1/13/23	67.3	79.0	50.6
17	8:00 AM	1/13/23	66.6	77.6	47.9
18	9:00 AM	1/13/23	65.6	77.0	46.0
19	10:00 AM	1/13/23	66.2	81.3	44.6
20	11:00 AM	1/13/23	66.6	79.7	47.6
21	12:00 PM	1/13/23	66.9	80.3	52.4
22	1:00 PM	1/13/23	67.2	78.5	54.3
23	2:00 PM	1/13/23	67.4	82.7	51.0
24	3:00 PM	1/13/23	67.7	82.8	53.9

Source: Compiled by LSA (2023).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum measured sound level
L_{min} = minimum measured sound level

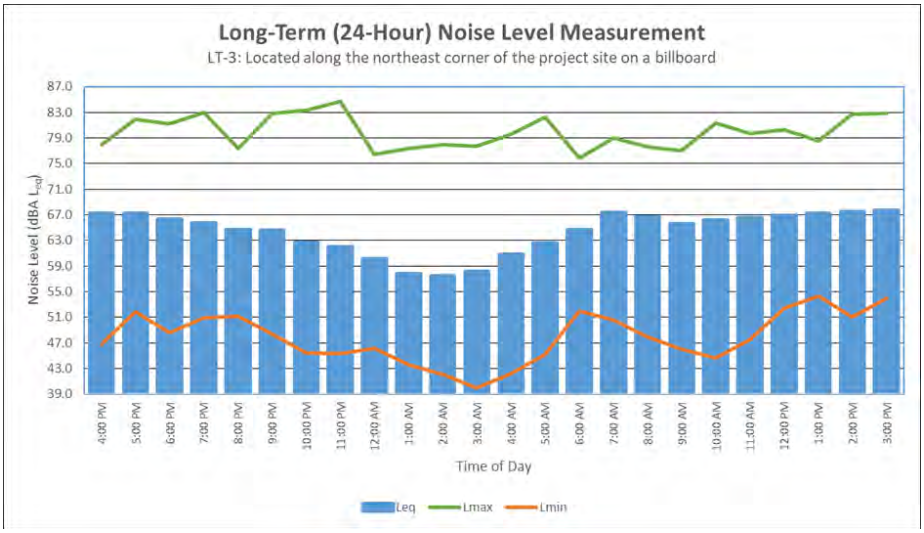

Table K: Long-Term Ambient Noise Monitoring Results

Monitor No.	Location	Noise Level (dBA)				CNEL	Noise Sources
		Daytime		Nighttime			
		L_{eq}	L_{max}	L_{eq}	L_{max}		
LT-1	Located along the western edge of the project site on an existing chain-link fence	54.9–61.4 (58.4)[1]	70.4-81.6	50.1–58.7 (55.1)[2]	68.2–73.6	61.9	Vehicle traffic noise on Foothill Boulevard.
LT-2	Southern edge of the project site on an existing chain-link fence	59.2–62.7 (60.9)[1]	70.2-80.3	52.8–59.0 (57.2)[2]	68.1–76.1	63.9	Faint vehicle traffic noise on Foothill Boulevard
LT-3	Northeast corner of the project site on an existing billboard sign	64.6–67.7 (66.9)[1]	77.0-83.0	57.5–64.7 (62.6)[2]	75.9–84.7	69.4	Vehicle traffic noise on Foothill Boulevard

Source: Compiled by LSA (2023).
Note: Long-term (24-hour) noise level measurements were conducted from January 12, 2023, to January 13, 2023.
[1] Average daytime noise level.
[2] Average nighttime noise level.
CNEL = Community Noise Equivalent Level
dBA = A-weighted decibels
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level

Table L: Existing (2022) Traffic Noise Levels

Roadway Segment	ADT	Centerline to 70 dBA CNEL (ft)	Centerline to 65 dBA CNEL (ft)	Centerline to 60 dBA CNEL (ft)	CNEL (dBA) 50 ft from Centerline of Outermost Lane
Foothill Boulevard Between Central Avenue and Project Driveway 1	24,991	80	165	352	70.5
Foothill Boulevard Between Project Driveway 1 and Benson Avenue	24,230	78	162	345	70.4

Source: Compiled by LSA (2023).
ADT = average daily traffic
CNEL = Community Noise Equivalent Level
dBA = A-weighted decibels
ft = foot/feet

IMPACTS

Short-Term Construction Noise Impacts

Two types of short-term noise impacts would occur during project construction. The first type would be from construction crew commutes and the transport of construction equipment and materials to the project site and would incrementally raise noise levels on roadways leading to the project site. The pieces of construction equipment for construction activities would move on site, would remain for the duration of each construction phase, and would not add to the daily traffic volume in the project vicinity. Although there would be a relatively high single-event noise exposure potential causing intermittent noise nuisance (passing trucks at 50 ft would generate up to a maximum of 84 dBA), the effect on longer-term ambient noise levels would be small because the number of daily construction-related vehicle trips is small compared to existing daily traffic volume on the Foothill Boulevard. Project construction would generate a maximum of 170 trips per day based on the California Emissions Estimator Model (CalEEMod) (Version 2022.4.0) results contained in Attachment B of the *Air Quality and Greenhouse Gas Emissions Impact Analysis Memorandum for the proposed West Foothill Development Project* (LSA 2023a). Foothill Boulevard would be used to access the project site. Based on Table L, Foothill Boulevard has estimated existing daily traffic volumes of 24,230 near the project site. Based on the information above, construction-related

traffic would increase noise by up to 0.1 dBA. A noise level increase of less than 3 dBA would not be perceptible to the human ear in an outdoor environment. Therefore, no short-term, construction-related impacts associated with worker commutes and transport of construction equipment and material to the project site would occur, and no noise reduction measures would be required.

The second type of short-term noise impact is related to noise generated from construction activities. Construction is performed in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. The proposed project anticipates site preparation, grading, building construction, paving, and architectural coating phases of construction. These various sequential phases change the character of the noise generated on a project site. Therefore, the noise levels vary as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Table M lists the L_{max} recommended for noise impact assessments for typical construction equipment included in the *FHWA Highway Construction Noise Handbook* (2006), based on a distance of 50 ft between the equipment and a noise receptor.

Table M: Typical Construction Equipment Noise Levels

Equipment Description	Acoustical Usage Factor[1] (%)	Maximum Noise Level (L_{max}) at 50 ft[2]
Backhoe	40	80
Compactor (ground)	20	80
Compressor	40	80
Crane	16	85
Dozer	40	85
Dump Truck	40	84
Excavator	40	85
Flatbed Truck	40	84
Forklift	20	85
Front-End Loader	40	80
Grader	40	85
Impact Pile Driver	20	95
Jackhammer	20	85
Pavement Scarifier	20	85
Paver	50	85
Pickup Truck	40	55
Pneumatic Tools	50	85
Pump	50	77
Rock Drill	20	85
Roller	20	85
Scraper	40	85
Tractor	40	84
Welder	40	73

Source: Table 9.1, *FHWA Highway Construction Noise Handbook* (FHWA 2006).
Note: The noise levels reported in this table are rounded to the nearest whole number.
[1] Usage factor is the percentage of time during a construction noise operation that a piece of construction equipment is operating at full power.
[2] Maximum noise levels were developed based on Specification 721.560 from the CA/T program to be consistent with the City of Boston, Massachusetts, Noise Code for the "Big Dig" project.
CA/T = Central Artery/Tunnel
FHWA = Federal Highway Administration
ft – foot/feet
L_{max} = maximum instantaneous noise level

Table N lists the anticipated construction equipment for each construction phase based on the CalEEMod (Version 2020.4.0) results contained in Attachment B of the *Air Quality and Greenhouse Gas Emissions Impact Analysis Memorandum for the proposed West Foothill Development Project* (LSA 2023a). Table N shows the combined noise level at 50 ft from all the equipment in each phase and the L_{eq} noise level for each equipment at 50 ft based on the quantity, reference L_{max} noise level at 50 ft, and the acoustical usage factor. As shown in Table N, construction noise levels would reach up to 94.1 dBA L_{max} (89.2 L_{eq}) at a distance of 50 ft.

Table N: Summary of Construction Phase, Equipment, and Noise Levels

Construction Phase	Construction Equipment	Quantity	Reference Noise Level at 50 ft (dBA L_{max})	Acoustical Usage Factor[1] (%)	Noise Level at 50 ft (dBA)		
					L_{max}	L_{eq}	Combined (L_{eq})
Demolition	Bulldozers	2	85	40	88.0	84.0	89.2
	Excavator	3	85	40	89.8	85.8	
	Concrete Saw	1	90	20	90.0	83.0	
Site Preparation	Bulldozers	3	85	40	89.8	85.8	87.3
	Front-End Loaders	4	80	40	86.0	82.0	
Grading	Grader	1	85	40	85.0	81.0	87.0
	Excavator	1	85	40	85.0	81.0	
	Front-End Loaders	3	80	40	84.8	80.8	
	Bulldozers	1	85	40	85.0	81.0	
Building Construction	Forklift	3	85	20	89.8	82.8	86.5
	Generator	1	82	50	82.0	79.0	
	Front-End Loaders	1	85	16	85.0	77.0	
	Crane	1	73	40	73.0	69.0	
	Welders	3	80	40	84.8	80.8	
Paving	Pavers	2	85	50	88.0	85.0	87.6
	Paving Equipment	2	85	20	88.0	81.0	
	Rollers	2	85	20	88.0	81.0	
Architectural Coating	Air Compressors	1	80	40	80.0	76.0	76.0

Source: Compiled by LSA (2023).

[1] The acoustical usage factor is the percentage of time during a construction noise operation that a piece of construction equipment operates at full power.

dBA = A-weighted decibels

ft = foot/feet

L_{eq} = equivalent continuous sound level

L_{max} = maximum instantaneous noise level

The closest residential property line is approximately 465 ft from the center of the project site and may be subject to short-term construction noise reaching 74.7 dBA L_{max} (69.8 dBA L_{eq}) generated by construction activities in the project area. Construction noise is temporary and would stop once project construction is completed. Compliance with the City's permitted hours of construction pursuant to Section 9.40.100(M) of the City's Municipal Code would minimize construction-related noise and ensure construction noise would not be generated during the more sensitive nighttime hours. Therefore, no construction noise impacts would occur, and no noise reduction measures are required.

Short-Term Construction Vibration Impacts

This construction vibration impact analysis discusses the level of human annoyance using vibration levels in VdB and assesses the potential for building damage using vibration levels in PPV (in/sec). Vibration levels calculated in RMS velocity are best for characterizing human response to building vibration, whereas vibration levels in PPV are best for characterizing damage potential.

Table O shows the reference vibration levels at a distance of 25 ft for each type of standard construction equipment from the Transit Noise and Vibration Impact Assessment Manual (FTA 2018). Outdoor demolition and site preparation for the proposed project is expected to require the use of a large tracked bulldozer, loaded trucks, and jackhammers, which would generate ground-borne vibration of up to 87 VdB (0.089 PPV [in/sec]), 86 VdB (0.076 PPV [in/sec], and 79 VdB (0.035 PPV [in/sec] when measured at 25 ft, respectively.

Table O: Vibration Source Amplitudes for Construction Equipment

Equipment	Reference PPV/L_V at 25 ft	
	PPV (in/sec)	L_V (VdB)[1]
Pile Driver (Impact), Typical	0.644	104
Pile Driver (Sonic), Typical	0.170	93
Vibratory Roller	0.210	94
Hoe Ram	0.089	87
Large Bulldozer[2]	**0.089**	**87**
Caisson Drilling	0.089	87
Loaded Trucks[2]	**0.076**	**86**
Jackhammer[2]	**0.035**	**79**
Small Bulldozer	0.003	58

Sources: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018), Table 7-4.

[1] RMS vibration velocity in decibels (VdB) is 1 µin/sec.

[2] Equipment shown in **bold** is expected to be used on site.

[3] Rubber-tire bulldozer.

µin/sec = micro-inches per second
ft = foot/feet
FTA = Federal Transit Administration
in/sec = inches per second
L_V = velocity in decibels
PPV = peak particle velocity
RMS = root-mean-square
VdB = vibration velocity decibels

The greatest vibration levels are anticipated to occur during the site preparation and grading phase. All other phases are expected to result in lower vibration levels. The distance to the nearest buildings for vibration impact analysis is measured between the nearest off-site buildings and the project boundary (assuming the construction equipment would be used at or near the project boundary) because vibration impacts normally occur within the buildings.

The formulas for vibration transmission are provided below.

$$L_vdB\ (D) = L_vdB\ (25\ ft) - 30\ Log\ (D/25)$$

$$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$$

Table P lists the projected vibration levels from various construction equipment expected to be used on the project site in the active construction area to the nearest buildings in the project vicinity. As shown in Table P, the closest residential and commercial/industrial buildings north and east of the project site are approximately 190 ft and 50 ft, respectively, from the active project construction area near the center of the project site and would experience vibration levels of up to 61 VdB and 78 VdB, respectively. These vibration levels would not result in community annoyance because they would not exceed the FTA community annoyance threshold of 84 VdB for uses that are not as sensitive to vibration and 78 VdB for daytime residences. Other building structures that surround the project site would experience lower vibration levels because they are farther away.

Table P: Potential Construction Vibration Annoyance

Land Use	Direction	Equipment/ Activity	Reference Vibration Level (VdB) at 25 ft	Distance to Structure (ft)[1]	Vibration Level (VdB)
Residential	North	Large bulldozers	87	190	61
		Loaded trucks	86	190	60
		Jackhammer	79	190	53
Commercial	North	Large bulldozers	87	190	61
		Loaded trucks	86	190	60
		Jackhammer	79	190	53
Commercial	East	Large bulldozers	87	50	78
		Loaded trucks	86	50	77
		Jackhammer	79	50	70
Commercial	South	Large bulldozers	87	125	66
		Loaded trucks	86	125	65
		Jackhammer	79	125	58
Industrial	West	Large bulldozers	87	55	77
		Loaded trucks	86	55	76
		Jackhammer	79	55	69

Source: Compiled by LSA (2023).
Note: The FTA-recommended annoyance threshold of 84 VdB for offices (and other similar areas not as sensitive to vibration) and 78 VdB for daytime residence was used to assess potential construction vibration annoyance.
[1] Distance from the active construction area near the center of the project site to the building structure.
ft = foot/feet
FTA = Federal Transit Administration
VdB = vibration velocity decibels

Similarly, Table Q lists the projected vibration levels from various construction equipment expected to be used on the project site at the project construction boundary to the nearest buildings in the project vicinity. As shown in Table Q, the closest residential building to the north is approximately 125 ft from the project construction boundary and would experience vibration levels of up to 0.008 PPV (in/sec). Vibration levels at the closest residential building would not result in building damage because the residential buildings are constructed equivalent to non-engineered timber and masonry, and vibration levels would not exceed the FTA vibration damage threshold of 0.20 PPV (in/sec).

Table Q: Potential Construction Vibration Damage

Land Use	Direction	Equipment/ Activity	Reference Vibration Level at 25 ft	Distance to Structure (ft)[1]	Vibration Level
			PPV (in/sec)		PPV (in/sec)
Residential	North	Large bulldozers	0.089	125	0.008
		Loaded trucks	0.076	125	0.007
		Jackhammer	0.035	125	0.003
Commercial	North	Large bulldozers	0.089	140	0.007
		Loaded trucks	0.076	140	0.006
		Jackhammer	0.035	140	0.003
Commercial	East	Large bulldozers	0.089	5	0.995
		Loaded trucks	0.076	5	0.850
		Jackhammer	0.035	5	0.391
Commercial	South	Large bulldozers	0.089	75	0.017
		Loaded trucks	0.076	75	0.015
		Jackhammer	0.035	75	0.007
Industrial	West	Large bulldozers	0.089	10	0.352
		Loaded trucks	0.076	10	0.300
		Jackhammer	0.035	10	0.138

Source: Compiled by LSA (2023).
Note: The FTA-recommended building damage threshold is 0.20 PPV [in/sec]) at the receiving non-engineered timber and masonry building.
[1] Distance from the project construction boundary to the building structure.
ft = foot/feet
FTA = Federal Transit Administration
in/sec = inches per second
PPV = peak particle velocity
VdB = vibration velocity decibels

The commercial/industrial and commercial buildings to the east and the west from the project construction boundary and would experience vibration levels of up to 0.995 PPV (in/sec) and 0.352 PPV (in/sec), respectively. These vibration levels would have the potential to result in building damage because the commercial/industrial and commercial buildings building are constructed equivalent to non-engineered timber and masonry and vibration levels would exceed the FTA vibration damage threshold of 0.20 in/sec (PPV). The implementation of vibration reduction measures to restrict heavy construction equipment (e.g., large bulldozers) or require the use of light construction equipment (e.g., small bulldozers and trucks) within 15 ft of the building structure would reduce construction vibration levels to 0.191 in/sec (PPV) or below.

Other building structures that surround the project site are 75 ft or more from the project construction boundary and would experience a vibration level of up to 0.017 in/sec (PPV). This vibration level would not result in building damage because the surrounding buildings would be constructed equivalent to or better than non-engineered timber and masonry and vibration levels would not exceed the FTA vibration damage threshold of 0.20 in/sec (PPV). Therefore, no construction vibration impacts would occur during project construction with the implementation of vibration reduction measures to restrict heavy construction equipment (e.g., large bulldozers) or require the use of light construction equipment (e.g., small bulldozers and trucks) within 15 ft of the building structure.

Long-Term Traffic Noise Impacts

The guidelines included in the *FHWA Highway Traffic Noise Prediction Model* (1977; FHWA RD-77-108) were used to evaluate highway traffic-related noise conditions along roadway segments in the project vicinity. This model requires various parameters, including traffic volumes, vehicle mix, vehicle speed, and roadway geometry to compute typical equivalent noise levels during daytime, evening, and nighttime hours. The resultant noise levels are weighted and summed over 24-hour periods to determine the CNEL values. The existing (2022), opening year (2024), and cumulative year (2045) with and without project ADT volumes were obtained from the *Traffic Impact Analysis Report for the West Foothill Development Project* (LSA 2023b). The standard vehicle mix for Southern California roadways was used for traffic on these roadway segments under the without project scenario. Under the with project scenario, the vehicle mix was adjusted based on the project's vehicle mix. Tables R, S, and T show the existing (2022), opening year (2024), and cumulative year (2045) traffic noise levels without and with the project within the project vicinity, respectively. These noise levels represent the worst-case scenario, which assumes that no shielding is provided between the traffic and the location where the noise contours are drawn. Attachment D provides the specific assumptions used in developing these noise levels and model printouts.

Tables R, S, and T show that the project-related traffic would increase noise by up to 0.1 dBA. Noise level increases less than 3 dBA would not be perceptible to the human ear in an outdoor environment. Therefore, no traffic noise impacts from project-related traffic on off-site sensitive receptors would occur. No noise reduction measures are required.

Long-Term Stationary Noise Impacts

Delivery trucks/truck loading and unloading activities, and heating, ventilation, and air conditioning (HVAC) equipment associated with the project would potentially affect the existing off-site land uses. The following provides a detailed noise analysis and discussion of each stationary noise source.

Truck Delivery and Truck Loading and Unloading Activities

Truck delivery and truck loading/unloading activities for the proposed project would take place on the south side of the proposed warehouse building 1 and on the north side of the proposed warehouse building 2, as Figure 2 shows. These activities would take place during both daytime and nighttime hours. Noise levels generated from these activities include truck movement, docking at loading dock doors, backup alarms, air brakes, idling, and loading and unloading activities. These activities would result in a maximum noise level similar to noise readings from truck delivery and truck loading and unloading activities for other projects, which would generate a noise level of 75 dBA L_{max} at 50 ft. Although a typical truck-unloading process takes an average of 15–20 minutes, this maximum noise level occurs in a much shorter period of time (less than 5 minutes). It is estimated that there would be up to 3 truck deliveries and truck loading/unloading activities during daytime hours and up to 2 truck deliveries and truck loading/unloading activities during nighttime hours, based on the project trip generation from the West Foothill Development Project Traffic Impact Analysis (LSA 2023b). With each truck generating the maximum noise level for a cumulative period of 5 minutes in any hour, trucks during daytime hours would generate the maximum noise level for a cumulative period of 15 minutes in any hour and trucks during nighttime hours would generate the maximum noise level for a cumulative period of 10 minutes in any hour, which would be 69.0 dBA L_{eq} and 67.2 dBA L_{eq} at 50 ft, respectively.

Table R: Existing Traffic Noise Levels Without and With Project

Roadway Segment	Without Project Traffic Conditions					With Project Traffic Conditions					
	ADT	Centerline to 70 dBA CNEL (ft)	Centerline to 65 dBA CNEL (ft)	Centerline to 60 dBA CNEL (ft)	CNEL (dBA) 50 ft from Centerline of Outermost Lane	ADT	Centerline to 70 dBA CNEL (ft)	Centerline to 65 dBA CNEL (ft)	Centerline to 60 dBA CNEL (ft)	CNEL (dBA) 50 ft from Centerline of Outermost Lane	Increase from Without Project Conditions (dBA)
Foothill Boulevard Between Central Avenue and Project Driveway 1	24,991	80	165	352	70.5	24,991	80	167	356	70.6	0.1
Foothill Boulevard Between Project Driveway 1 and Benson Avenue	24,230	78	162	345	70.4	24,230	78	161	344	70.4	0.0

Source: Compiled by LSA (2023).
ADT = average daily traffic
CNEL = Community Noise Equivalent Level
dBA = A-weighted decibels
ft = foot/feet

Table S: Opening Year (2024) Traffic Noise Levels Without and With Project

Roadway Segment	Without Project Traffic Conditions					With Project Traffic Conditions					
	ADT	Centerline to 70 dBA CNEL (ft)	Centerline to 65 dBA CNEL (ft)	Centerline to 60 dBA CNEL (ft)	CNEL (dBA) 50 ft from Centerline of Outermost Lane	ADT	Centerline to 70 dBA CNEL (ft)	Centerline to 65 dBA CNEL (ft)	Centerline to 60 dBA CNEL (ft)	CNEL (dBA) 50 ft from Centerline of Outermost Lane	Increase from Without Project Conditions (dBA)
Foothill Boulevard Between Central Avenue and Project Driveway 1	27,995	85	178	380	71.0	28,597	87	181	386	71.1	0.1
Foothill Boulevard Between Project Driveway 1 and Benson Avenue	27,201	84	174	373	70.9	27,571	85	176	377	71.0	0.1

Source: Compiled by LSA (2023).
ADT = average daily traffic
CNEL = Community Noise Equivalent Level
dBA = A-weighted decibels
ft = foot/feet

Table T: Cumulative Year (2045) Traffic Noise Levels Without and With Project

Roadway Segment	Without Project Traffic Conditions					With Project Traffic Conditions					
	ADT	Centerline to 70 dBA CNEL (ft)	Centerline to 65 dBA CNEL (ft)	Centerline to 60 dBA CNEL (ft)	CNEL (dBA) 50 ft from Centerline of Outermost Lane	ADT	Centerline to 70 dBA CNEL (ft)	Centerline to 65 dBA CNEL (ft)	Centerline to 60 dBA CNEL (ft)	CNEL (dBA) 50 ft from Centerline of Outermost Lane	Increase from Without Project Conditions (dBA)
Foothill Boulevard Between Central Avenue and Project Driveway 1	31,935	92	194	415	71.6	32,537	94	197	421	71.7	0.1
Foothill Boulevard Between Project Driveway 1 and Benson Avenue	31,174	91	191	408	71.5	31,544	92	192	412	71.5	0.0

Source: Compiled by LSA (2023).
ADT = average daily traffic
CNEL = Community Noise Equivalent Level
dBA = A-weighted decibels
ft = foot/feet

The proposed warehouse buildings 1 and 2 would provide a minimum noise reduction of 15 dBA for the adjacent land uses surrounding the project site because the two warehouse buildings surround the two truck loading dock areas and the height of the two warehouse buildings are approximately 32 ft. The noise level reduction calculation provided by the proposed industrial building is provided in Attachment E.

Heating, Ventilation, and Air Conditioning Equipment

The proposed project would include rooftop HVAC units for the fast-food restaurant with drive-through and the two warehouses. One HVAC unit was assumed for the fast-food restaurant and four HVAC units were assumed for the two warehouses. Each warehouse building would have two potential office locations and each office location would have two HVAC units. The specifications of the HVAC equipment, including the reference noise level, are provided in Attachment F. One rooftop HVAC unit would generate a noise level of 62.4 dBA L_{eq} at a distance of 50 ft. Two HVAC units operating simultaneously at each location would generate a noise level of 65.4 dBA L_{eq} at a distance of 50 ft.

Stationary Noise Impacts Summary

Table U shows the daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) individual stationary noise source from truck delivery and truck loading and unloading activities and rooftop HVAC equipment at land uses surrounding the project site as well as the distance attenuation, noise reduction from shielding, and the combined stationary noise level at each property line.

Residential Land Uses. Table U shows that the closest residential property line to the north would have a combined daytime and nighttime stationary noise level of 54.2 and 54.1 dBA L_{eq}, respectively. Maximum instantaneous noise levels at the closest residential property line to the north would reach 41.3 dBA L_{max}. Daytime noise levels would not exceed the City's exterior daytime 30-minute (L_{50}) noise standard. Although nighttime noise levels would exceed the City's exterior daytime 30-minute (L_{50}) noise standard, measured average nighttime ambient noise levels at LT-3 was 62.6 dBA L_{eq}, which is representative of the ambient noise levels at the residences north of the project site and would increase ambient noise levels by 0.6 dBA. A noise level increase of less than 3 dBA would not be perceptible to the human ear in an outdoor environment. Also, daytime and nighttime instantaneous maximum (L_{max}) noise levels would not exceed the City's exterior maximum anytime noise standards of 75 dBA and 65 dBA, respectively, for residential land uses. Therefore, no noise impacts from project operations would occur at the residential property line north of the project site and no noise reduction measures are required.

Commercial and Industrial Land Uses. Table U shows that the combined stationary would reach up to 56.8, 64.5, 61.4, and 69.0 dBA L_{eq}, at the closest commercial and industrial property line to the north, east, south, and west, respectively. These noise levels would not exceed the City's exterior anytime noise standard of 75 dBA for commercial and industrial uses. Therefore, no noise impacts from project operations would occur at commercial and industrial properties adjacent to the project site, and no noise reduction measures are required.

Table U: Daytime and Nighttime Stationary Noise Levels

Land Use	Direction	Noise Source	Reference Noise Level at 50 ft (dBA L_{max})	Reference Noise Level at 50 ft (dBA L_{eq})	Distance from Source to Receptor (ft)	Distance Attenuation (dBA)	Shielding[2] (dBA)	Noise Level (dBA L_{max})	Noise Level (dBA L_{eq})	Combined Noise Level (dBA L_{eq})
Residence	North	Truck Delivery[1] (Warehouse 1)	75	69.0/67.2	430	18.7	15	41.3	35.3/33.5	54.2/54.1
		Truck Delivery[1] (Warehouse 2)	75	69.0/67.2	535	20.6	15	39.4	33.4/31.6	
		HVAC 1 (Commercial)	--	62.4	305	15.7	0	--	46.7	
		HVAC 2 (Warehouse 1)	--	65.4	410	18.3	0	--	47.1	
		HVAC 3 (Warehouse 1)	--	65.4	285	15.1	0	--	50.3	
		HVAC 4 (Warehouse 2)	--	65.4	645	22.2	0	--	43.2	
		HVAC 5 (Warehouse 2)	--	65.4	550	20.8	0	--	44.6	
Commercial	North	Truck Delivery[1] (Warehouse 1)	75	69.0/67.2	385	17.7	15	42.3	36.3/34.5	56.8/56.8
		Truck Delivery[1] (Warehouse 2)	75	69.0/67.2	505	20.1	15	39.9	33.9/321	
		HVAC 1 (Commercial)	--	62.4	160	10.1	0	--	52.3	
		HVAC 2 (Warehouse 1)	--	65.4	265	14.5	0	--	50.9	
		HVAC 3 (Warehouse 1)	--	65.4	265	14.5	0	--	50.9	
		HVAC 4 (Warehouse 2)	--	65.4	560	21.0	0	--	44.4	
		HVAC 5 (Warehouse 2)	--	65.4	545	20.7	0	--	44.7	
Commercial	East	Truck Delivery[1] (Warehouse 1)	75	69.0/67.2	145	9.2	15	50.8	44.8/43.0	64.5/64.5
		Truck Delivery[1] (Warehouse 2)	75	69.0/67.2	160	10.1	15	49.9	43.9/42.1	
		HVAC 1 (Commercial)	--	62.4	230	13.3	0	--	49.1	
		HVAC 2 (Warehouse 1)	--	65.4	285	15.1	0	--	50.3	
		HVAC 3 (Warehouse 1)	--	65.4	70	2.9	0	--	62.5	
		HVAC 4 (Warehouse 2)	--	65.4	310	15.8	0	--	49.6	
		HVAC 5 (Warehouse 2)	--	65.4	110	6.8	0	--	58.6	
Commercial	South	Truck Delivery[1] (Warehouse 1)	75	69.0/67.2	245	13.8	15	46.2	40.2/38.4	61.4/61.3
		Truck Delivery[1] (Warehouse 2)	75	69.0/67.2	125	8	15	52.0	46.0/44.2	
		HVAC 1 (Commercial)	--	62.4	510	20.2	0	--	42.2	
		HVAC 2 (Warehouse 1)	--	65.4	415	18.4	0	--	47.0	
		HVAC 3 (Warehouse 1)	--	65.4	415	18.4	0	--	47.0	
		HVAC 4 (Warehouse 2)	--	65.4	115	7.2	0	--	58.2	
		HVAC 5 (Warehouse 2)	--	65.4	125	8	0	--	57.4	
Industrial	West	Truck Delivery[1] (Warehouse 1)	75	69.0/67.2	145	9.2	15	50.8	44.8/43.0	69.0/69.0
		Truck Delivery[1] (Warehouse 2)	75	69.0/67.2	145	9.2	15	50.8	44.8/43.0	

Table U: Daytime and Nighttime Stationary Noise Levels

Land Use	Direction	Noise Source	Reference Noise Level at 50 ft (dBA L_{max})	Reference Noise Level at 50 ft (dBA L_{eq})	Distance from Source to Receptor (ft)	Distance Attenuation (dBA)	Shielding[2] (dBA)	Noise Level (dBA L_{max})	Noise Level (dBA L_{eq})	Combined Noise Level (dBA L_{eq})
Industrial	West	HVAC 1 (Commercial)	--	62.4	90	5.1	0	--	57.3	69.0/69.0
		HVAC 2 (Warehouse 1)	--	65.4	70	2.9	0	--	62.5	
		HVAC 3 (Warehouse 1)	--	65.4	285	15.1	0	--	50.3	
		HVAC 4 (Warehouse 2)	--	65.4	40	-1.9	0	--	67.3	
		HVAC 5 (Warehouse 2)	--	65.4	285	15.1	0	--	50.3	

Source: Compiled by LSA (2023).

[1] Truck delivery and truck loading and unloading activities.

[2] The calculated noise reduction from the proposed 32 ft high warehouse buildings is provided in Attachment E.

dBA = A-weighted decibels

ft = feet

HVAC = heating, ventilation, and air conditioning

L_{eq} = equivalent continuous sound level

L_{max} = maximum instantaneous noise level

Long-Term Vibration Impacts

The proposed project would not generate vibration. In addition, vibration levels generated from project-related traffic on the adjacent roadways (Foothill Boulevard) are unusual for on-road vehicles because the rubber tires and suspension systems of on-road vehicles provide vibration isolation. Therefore, no vibration impacts from project-related operations would occur, and no vibration reduction measures are required.

MINIMIZATION MEASURES

The following measure would minimize construction noise:

- The construction contractor shall limit construction activities to between the hours of 7:00 a.m. and 6:00 p.m. on weekdays pursuant to Section 9.40.100(M) of the City's Municipal Code (City of Upland 2022). Construction is prohibited outside these hours during weekdays and anytime on weekends.

REDUCTION MEASURES

Short-Term Construction Noise Impacts

No noise reduction measures are required.

Short-Term Construction Vibration Impacts

No vibration reduction measures are required.

Aircraft Noise Impacts

No noise reduction measures are required.

Long-Term Traffic Noise Impacts

No noise reduction measures are required.

Long-Term Stationary Noise Impacts

No noise reduction measures are required.

Long-Term Vibration Impacts

No vibration reduction measures are required.

ATTACHMENTS

A: References
B: Figures 1–3
C: Noise Monitoring Survey Sheets
D: FHWA Traffic Noise Model Printouts
E: Noise Reduction Calculations
F: HVAC Specifications

ATTACHMENT A

REFERENCES

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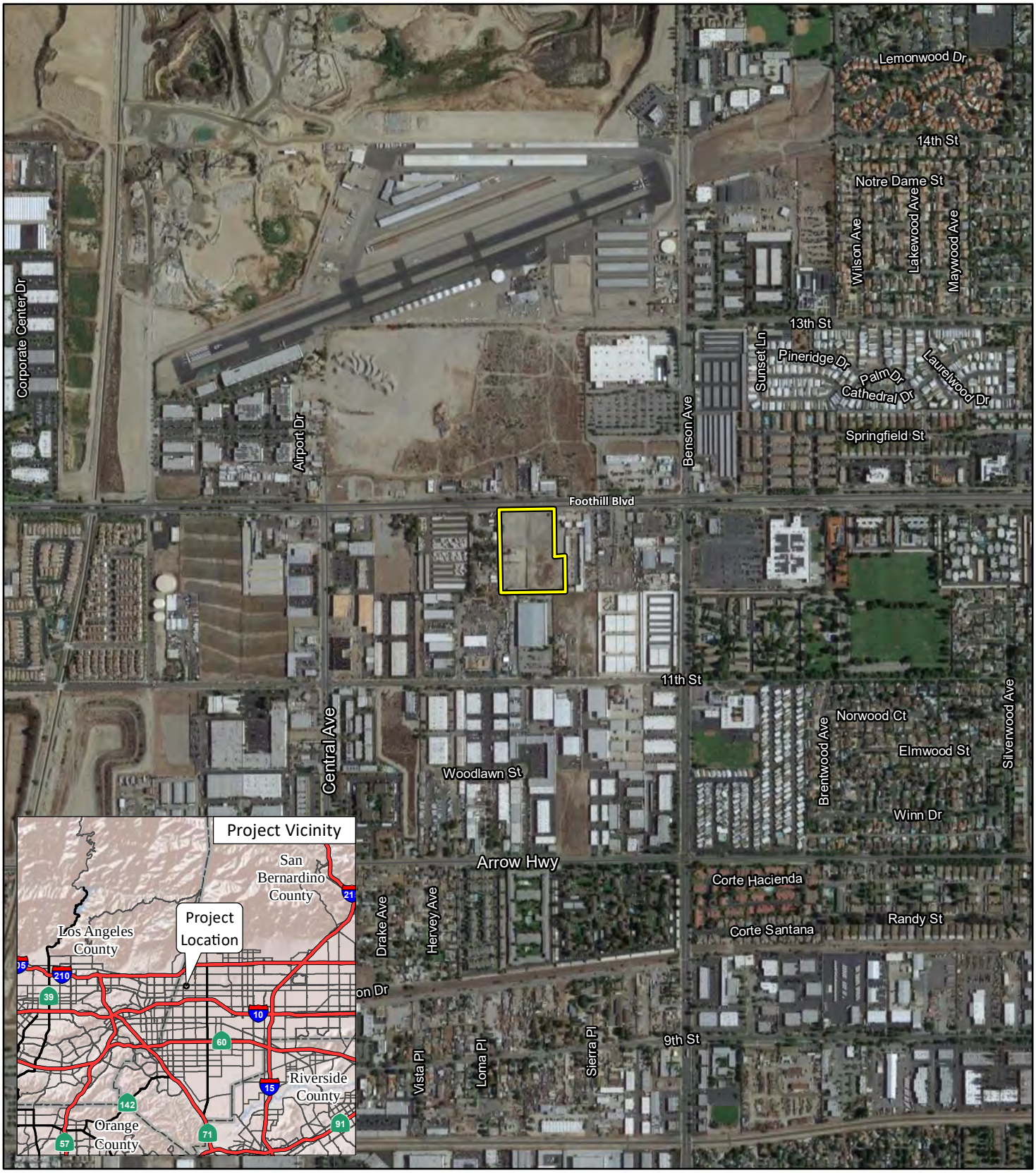
ATTACHMENT B

FIGURES

Figure 1: Project Location and Vicinity
Figure 2: Site Plan
Figure 3: Noise Monitoring Locations



LSA

LEGEND

Project Location

FIGURE 1

N

0 500 1000

FEET

SOURCE: USGS 7.5' Quad - *Ontario*(1981), *Mt. Baldy*(1988), CA

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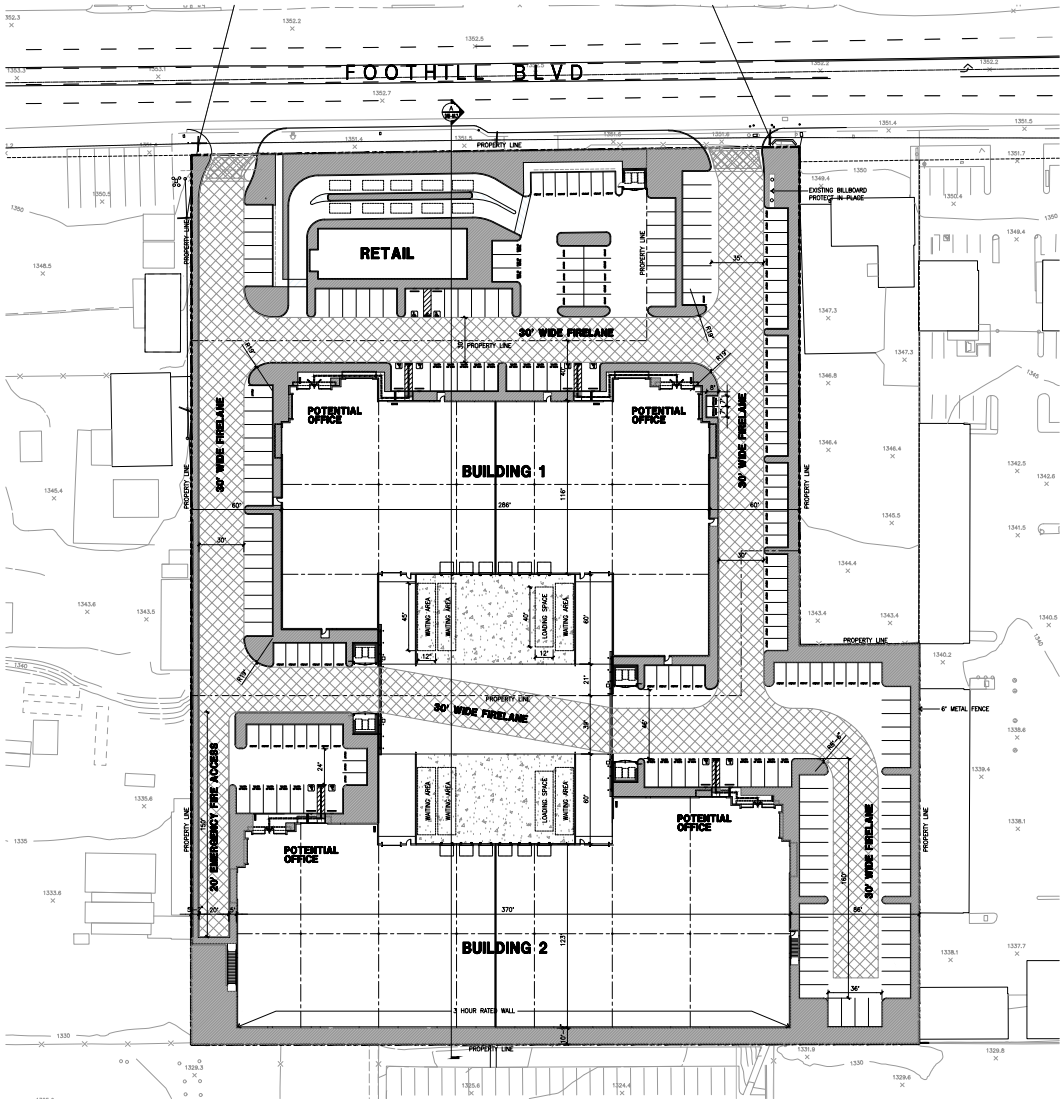
West Foothill Development Project

Project Location and Vicinity



LSA

FIGURE 2

N

0 75 150

FEET

SOURCE: HPA Architecture

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West Foothill Development Project

Site Plan

LSA

LEGEND

- Project Site Boundary
- LT-1 - Long-term Noise Monitoring Location

FIGURE 3

N

0 240 480

FEET

SOURCE: Google Maps 2022

West Foothill Development Project

Noise Monitoring Locations

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ATTACHMENT C

NOISE MONITORING SURVEY SHEETS

Noise Measurement Survey – 24 HR

Project Number: MVP2201
Project Name: West Foothill Development

Test Personnel: Kevin Nguyendo
Equipment: Spark 706RC (SN:905)

Site Number: LT-1 Date: 1/12/23

Time: From 4:00 p.m. To 4:00 p.m.

Site Location: Western project boundary on an existing chain linked fence. Approximately 325 ft from Foothill Boulevard centerline.

Primary Noise Sources: Traffic on Foothill Boulevard.

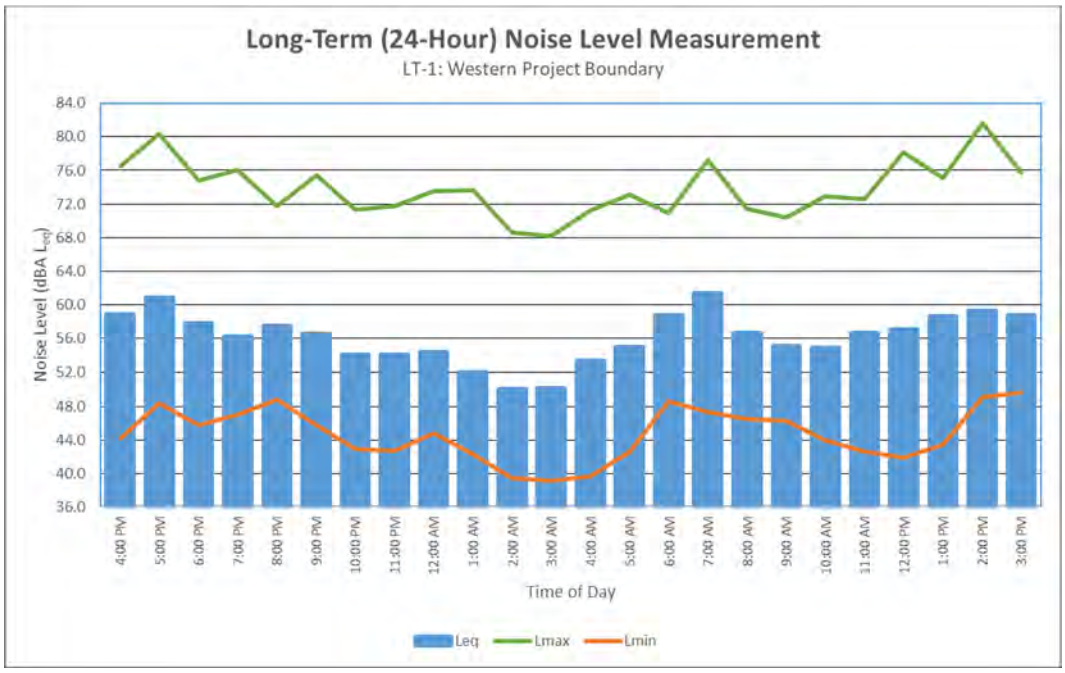
Comments:

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-1

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
4:00 PM	1/12/23	58.8	76.5	44.2
5:00 PM	1/12/23	60.8	80.4	48.4
6:00 PM	1/12/23	57.9	74.8	45.8
7:00 PM	1/12/23	56.2	76.0	47.0
8:00 PM	1/12/23	57.4	71.8	48.8
9:00 PM	1/12/23	56.6	75.4	45.7
10:00 PM	1/12/23	54.1	71.3	42.9
11:00 PM	1/12/23	54.1	71.7	42.7
12:00 AM	1/13/23	54.4	73.5	44.8
1:00 AM	1/13/23	52.1	73.6	42.3
2:00 AM	1/13/23	50.1	68.6	39.5
3:00 AM	1/13/23	50.1	68.2	39.1
4:00 AM	1/13/23	53.4	71.2	39.7
5:00 AM	1/13/23	55.0	73.1	42.6
6:00 AM	1/13/23	58.7	70.9	48.6
7:00 AM	1/13/23	61.4	77.2	47.3
8:00 AM	1/13/23	56.7	71.4	46.5
9:00 AM	1/13/23	55.1	70.4	46.3
10:00 AM	1/13/23	54.9	72.9	44.0
11:00 AM	1/13/23	56.7	72.6	42.6
12:00 PM	1/13/23	57.1	78.2	41.9
1:00 PM	1/13/23	58.7	75.1	43.4
2:00 PM	1/13/23	59.3	81.6	49.1
3:00 PM	1/13/23	58.8	75.7	49.6

Source: Compiled by LSA Associates, Inc. (2023).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level



Noise Measurement Survey – 24 HR

Project Number: MVP2201
Project Name: West Foothill Development

Test Personnel: Kevin Nguyendo
Equipment: Spark 706RC (SN:906)

Site Number: LT-2 Date: 1/12/23

Time: From 4:00 p.m. To 4:00 p.m.

Site Location: Southern project boundary on an existing chain linked fence.

Primary Noise Sources: Faint traffic on Foothill Boulevard.

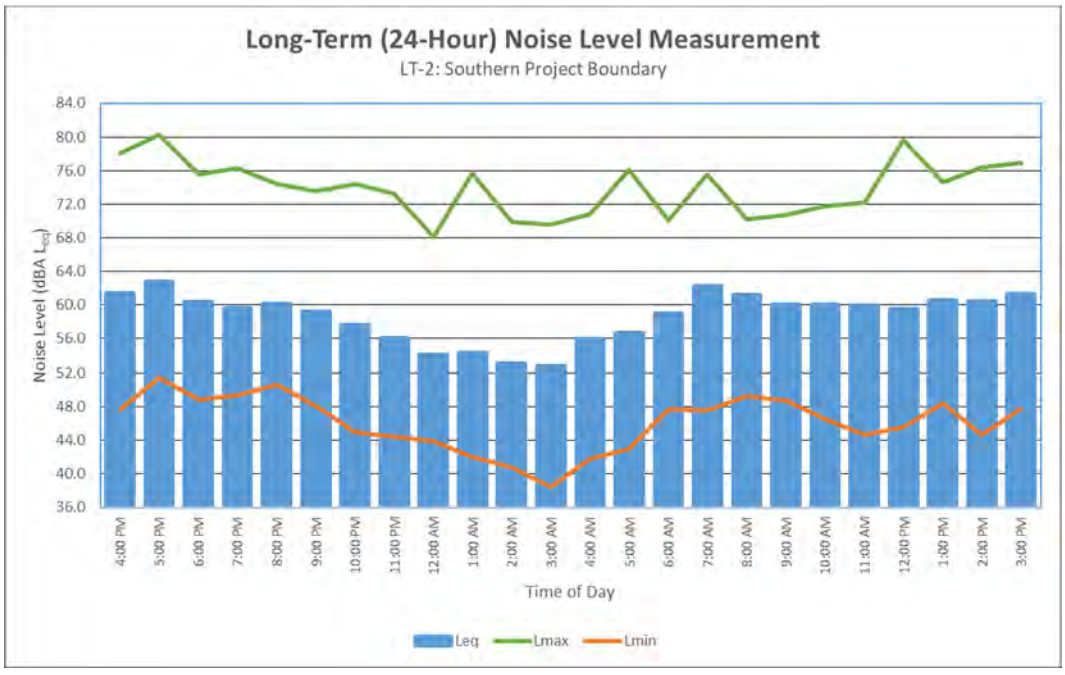
Comments:

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-2

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
4:00 PM	1/12/23	61.4	78.1	47.7
5:00 PM	1/12/23	62.7	80.3	51.4
6:00 PM	1/12/23	60.3	75.5	48.8
7:00 PM	1/12/23	59.6	76.3	49.3
8:00 PM	1/12/23	60.1	74.4	50.6
9:00 PM	1/12/23	59.2	73.6	48.1
10:00 PM	1/12/23	57.6	74.4	44.9
11:00 PM	1/12/23	56.0	73.2	44.4
12:00 AM	1/13/23	54.1	68.1	43.9
1:00 AM	1/13/23	54.4	75.7	42.0
2:00 AM	1/13/23	53.1	69.9	40.7
3:00 AM	1/13/23	52.8	69.6	38.4
4:00 AM	1/13/23	55.9	70.8	41.8
5:00 AM	1/13/23	56.7	76.1	42.9
6:00 AM	1/13/23	59.0	70.1	47.7
7:00 AM	1/13/23	62.2	75.5	47.6
8:00 AM	1/13/23	61.2	70.2	49.2
9:00 AM	1/13/23	60.0	70.7	48.7
10:00 AM	1/13/23	60.0	71.8	46.5
11:00 AM	1/13/23	59.9	72.2	44.6
12:00 PM	1/13/23	59.5	79.6	45.6
1:00 PM	1/13/23	60.5	74.6	48.4
2:00 PM	1/13/23	60.4	76.4	44.6
3:00 PM	1/13/23	61.3	76.9	47.8

Source: Compiled by LSA Associates, Inc. (2022).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level



Noise Measurement Survey – 24 HR

Project Number: MVP2201
Project Name: West Foothill Development

Test Personnel: Kevin Nguyendo
Equipment: Spark 706RC (SN:908)

Site Number: LT-3 Date: 1/12/23

Time: From 4:00 p.m. To 4:00 p.m.

Site Location: Northeast corner of the project site on the south leg of the existing billboard sign. Approximately 45 ft from Foothill Boulevard centerline.

Primary Noise Sources: Traffic on Foothill Boulevard.

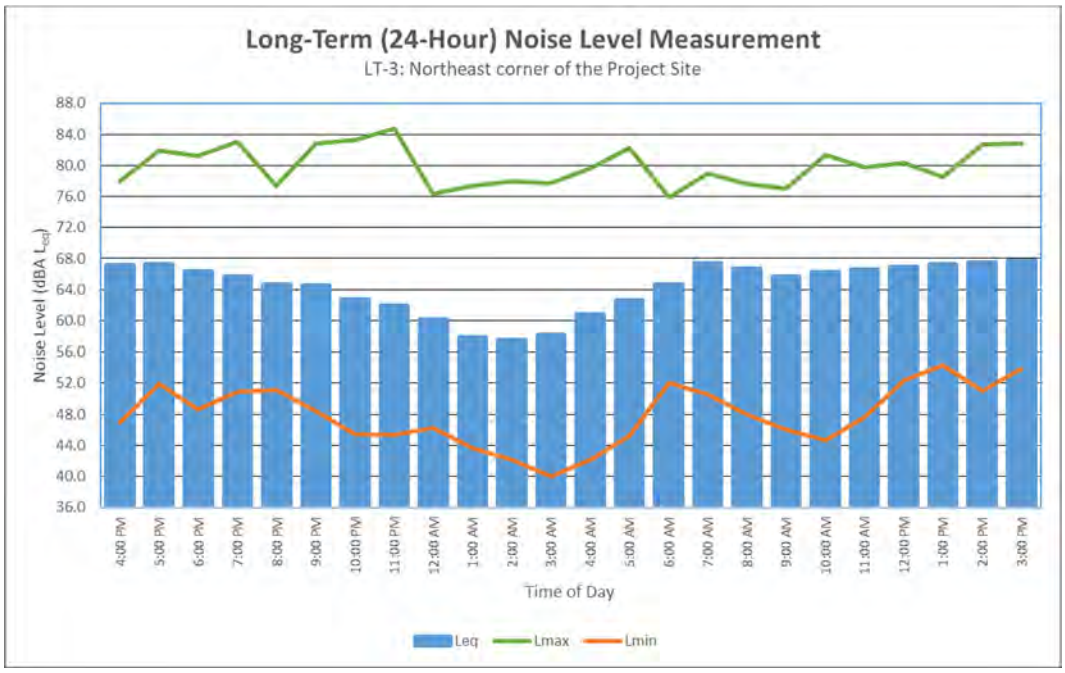
Comments:

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-3

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
4:00 PM	1/12/23	67.2	77.9	46.9
5:00 PM	1/12/23	67.3	81.9	51.9
6:00 PM	1/12/23	66.3	81.2	48.6
7:00 PM	1/12/23	65.7	83.0	50.9
8:00 PM	1/12/23	64.7	77.4	51.1
9:00 PM	1/12/23	64.6	82.8	48.4
10:00 PM	1/12/23	62.7	83.3	45.4
11:00 PM	1/12/23	62.0	84.7	45.3
12:00 AM	1/13/23	60.1	76.4	46.2
1:00 AM	1/13/23	57.8	77.4	43.6
2:00 AM	1/13/23	57.5	77.9	42.1
3:00 AM	1/13/23	58.1	77.7	40.0
4:00 AM	1/13/23	60.8	79.6	42.2
5:00 AM	1/13/23	62.6	82.2	45.2
6:00 AM	1/13/23	64.7	75.9	52.0
7:00 AM	1/13/23	67.3	79.0	50.6
8:00 AM	1/13/23	66.6	77.6	47.9
9:00 AM	1/13/23	65.6	77.0	46.0
10:00 AM	1/13/23	66.2	81.3	44.6
11:00 AM	1/13/23	66.6	79.7	47.6
12:00 PM	1/13/23	66.9	80.3	52.4
1:00 PM	1/13/23	67.2	78.5	54.3
2:00 PM	1/13/23	67.4	82.7	51.0
3:00 PM	1/13/23	67.7	82.8	53.9

Source: Compiled by LSA Associates, Inc. (2023).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level



ATTACHMENT D

FHWA HIGHWAY TRAFFIC NOISE MODEL PRINTOUTS

TABLE Existing Without Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Central Avenue and Project Driveway 1
NOTES: West Foothill Development Project - Existing Without Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 24991 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.41	12.39	9.20
M-TRUCKS	1.70	0.10	0.21
H-TRUCKS	1.73	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.52

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
79.5	165.0	352.5	757.9

TABLE Existing Without Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Project Driveway 1 and Benson Avenue
NOTES: West Foothill Development Project - Existing Without Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 24230 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.41	12.39	9.20
M-TRUCKS	1.70	0.10	0.21
H-TRUCKS	1.73	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.39

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
78.0	161.7	345.3	742.4

TABLE Existing With Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Central Avenue and Project Driveway 1
NOTES: West Foothill Development Project - Existing With Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 24991 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.38	12.38	9.19
M-TRUCKS	1.68	0.10	0.21
H-TRUCKS	1.79	0.05	0.22

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.58

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
80.2	166.5	355.7	764.8

TABLE Existing With Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Project Driveway 1 and Benson Avenue
NOTES: West Foothill Development Project - Existing With Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 24230 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.39	12.39	9.20
M-TRUCKS	1.69	0.10	0.21
H-TRUCKS	1.77	0.05	0.20

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.36

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
77.8	161.1	344.0	739.5

TABLE 2024 Without Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Central Avenue and Project Driveway 1
NOTES: West Foothill Development Project - 2024 Without Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 27995 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.41	12.39	9.20
M-TRUCKS	1.70	0.10	0.21
H-TRUCKS	1.73	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.01

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
85.2	177.7	380.1	817.4

TABLE 2024 Without Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Project Driveway 1 and Benson Avenue
NOTES: West Foothill Development Project - 2024 Without Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 27201 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.41	12.39	9.20
M-TRUCKS	1.70	0.10	0.21
H-TRUCKS	1.73	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.89

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
83.7	174.4	372.9	801.9

TABLE 2024 With Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Central Avenue and Project Driveway 1
NOTES: West Foothill Development Project - 2024 With Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 28597 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.38	12.39	9.20
M-TRUCKS	1.68	0.10	0.21
H-TRUCKS	1.78	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.12

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
86.5	180.7	386.5	831.2

TABLE 2024 With Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Project Driveway 1 and Benson Avenue
NOTES: West Foothill Development Project - 2024 With Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 27571 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.39	12.39	9.19
M-TRUCKS	1.69	0.10	0.21
H-TRUCKS	1.77	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 70.96

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
84.6	176.3	377.0	810.8

TABLE 2045 Without Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Central Avenue and Project Driveway 1
NOTES: West Foothill Development Project - 2045 Without Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31935 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.41	12.39	9.20
M-TRUCKS	1.70	0.10	0.21
H-TRUCKS	1.73	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.58

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
92.4	193.7	414.8	892.3

TABLE 2045 Without Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Project Driveway 1 and Benson Avenue
NOTES: West Foothill Development Project - 2045 Without Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31174 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.41	12.39	9.20
M-TRUCKS	1.70	0.10	0.21
H-TRUCKS	1.73	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.48

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
91.0	190.7	408.2	878.1

TABLE 2045 With Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Central Avenue and Project Driveway 1
NOTES: West Foothill Development Project - 2045 With Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 32537 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.38	12.39	9.20
M-TRUCKS	1.68	0.10	0.21
H-TRUCKS	1.78	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.68

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
93.7	196.6	421.1	905.9

TABLE 2045 With Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 02/28/2023
ROADWAY SEGMENT: Foothill Boulevard Between Project Driveway 1 and Benson Avenue
NOTES: West Foothill Development Project - 2045 With Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 31544 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	74.39	12.39	9.20
M-TRUCKS	1.69	0.10	0.21
H-TRUCKS	1.76	0.05	0.21

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 71.54

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
91.9	192.5	412.1	886.5

ATTACHMENT E

NOISE REDUCTION CALCULATIONS

Truck Loading/Unloading Activity Noise Reduction Calculation

No.	Activity	Land Use	Direction	Wall Height (ft)	Wall Base Elevation	Recepter Base Elevation	Receptor Height (ft)	Source Base Elevation	Source Height (ft)	Source to Barrier Distance (ft)	Receptor to Source Distance (ft)	Receptor to Barrier Distance (ft)	d1	d2	d3	delta	N	Noise Reduction	Noise Reduction Applied to Noise Analysis
1	Truck Loading Dock at Warehouse 1	Residence	North	32	0	0	5	0	4	30	535	505	535.0009	505.7213	41.03657	11.7569	11.50319	17.1	15.0
2	Truck Loading Dock at Warehouse 1	Commercial	North	32	0	0	5	0	4	30	505	475	505.001	475.7667	41.03657	11.80233	11.54763	17.1	15.0
3	Truck Loading Dock at Warehouse 1	Commercial	East	32	0	0	5	0	4	30	160	130	160.0031	132.7742	41.03657	13.80769	13.50972	17.1	15.0
4	Truck Loading Dock at Warehouse 1	Commercial	South	32	0	0	5	0	4	30	125	95	125.004	98.76234	41.03657	14.79491	14.47563	17.1	15.0
5	Truck Loading Dock at Warehouse 1	Industrial	West	32	0	0	5	0	4	30	145	115	145.0034	118.1271	41.03657	14.16017	13.85459	17.1	15.0
1	Truck Loading Dock at Warehouse 2	Residence	North	32	0	0	5	0	4	30	430	400	430.0012	400.9102	41.03657	11.94562	11.68783	17.1	15.0
2	Truck Loading Dock at Warehouse 2	Commercial	North	32	0	0	5	0	4	30	385	355	385.0013	356.0253	41.03657	12.06055	11.80028	17.1	15.0
3	Truck Loading Dock at Warehouse 2	Commercial	East	32	0	0	5	0	4	30	145	115	145.0034	118.1271	41.03657	14.16017	13.85459	17.1	15.0
4	Truck Loading Dock at Warehouse 2	Commercial	South	32	0	0	5	0	4	30	245	215	245.002	216.6887	41.03657	12.72325	12.44868	17.1	15.0
5	Truck Loading Dock at Warehouse 2	Industrial	West	32	0	0	5	0	4	30	145	115	145.0034	118.1271	41.03657	14.16017	13.85459	17.1	15.0

ATTACHMENT F

SPEAKERPHONE SPECIFICATIONS

HME

Customer Driven

Memo

Re: Drive-Thru Sound Pressure Levels From the Menu Board or Speaker Post

The sound pressure levels from the menu board or speaker post are as follows:

1. Sound pressure level (SPL) contours (A weighted) were measured on a typical HME SPP2 speaker post. The test condition was for pink noise set to 84 dBA at 1 foot in front of the speaker. All measurements were conducted outside with the speaker post placed 8 feet from a non-absorbing building wall and at an oblique angle to the wall. These measurements should not be construed to guarantee performance with any particular speaker post in any particular environment. They are typical results obtained under the conditions described above.

2. The SPL levels are presented for different distances from the speaker post:

Distance from the Speaker (Feet)	SPL (dBA)
1 foot	84 dBA
2 feet	78 dBA
4 feet	72 dBA
8 feet	66 dBA
16 feet	60 dBA
32 feet	54 dBA

3. The above levels are based on factory recommended operating levels, which are preset for HME components and represent the optimum level for drive-thru operations in the majority of the installations.

Also, HME incorporates automatic volume control (AVC) into many of our Systems. AVC will adjust the outbound volume based on the outdoor, ambient noise level. When ambient noise levels naturally decrease at night, AVC will reduce the outbound volume on the system. See below for example:

Distance from Outside Speaker	Decibel Level of standard system with 45 dB of outside noise without AVC	Decibel level of standard system with 45 dB of outside noise with AVC active
1 foot	84 dBA	60 dBA
2 feet	78 dBA	54 dBA
4 feet	72 dBA	48 dBA
8 feet	66 dBA	42 dBA
16 feet	60 dBA	36 dBA

If there are any further questions regarding this issue please contact HME customer service at 1-800-848-4468.

Thank you for your interest in HME's products.

ATTACHMENT G

HVAC SPECIFICATIONS

Product Catalog

Packaged Rooftop Air Conditioners Voyager™ Light Commercial — Cooling, Gas/Electric

12.5 to 25 Tons, 60 Hz

December 2021 **RT-PRC028AH-EN**

Introduction

Packaged Rooftop Air Conditioners

Through the years, Trane has designed and developed the most complete line of Packaged Rooftop products available in the market today. Trane was the first to introduce the Micro—microelectronic unit controls—and has continued to improve and revolutionize this design concept.

The ReliaTel™control platform offers the same great features and functionality as the original Micro, with additional benefits for greater application flexibility.

Voyager™ continues to provide the highest standards in quality and reliability, comfort, ease of service, and the performance of Trane light commercial products.

Trane customers demand products that provide exceptional reliability, meet stringent performance requirements, and are competitively priced. Trane delivers with Voyager.

Voyager features cutting edge technologies: reliable compressors, Trane engineered ReliaTel™ controls, computer-aided run testing, and Integrated Comfort™ Systems. So, whether you're the contractor, the engineer, or the owner, you can be certain Voyager products are built to meet your needs.

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Revision History

Updated General data—25 tons high efficiency table in General Data chapter.

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Features and Benefits

Note: *Packaged Rooftop units cooling, heating capacities, and efficiencies are AHRI certified within scope of AHRI Standard 340-360 (I-P) and ANSIZ21.47 and 10 CFR Part 431 pertaining to Commercial Warm Air Furnaces (gas heating units).*

Standard Features and Available Options

Table 1. Voyager™ Light Commercial control features — standard and optional

	Standard Features	Options[a]		
		Factory Installed	Factory or Field Installed	Field Installed
BACnet® Communications Interface (BCI)			X	
Discharge Line Thermostat	X			
Humidity Sensor				X
LonTalk® Communications Interface (LCI)			X	
ReliaTel™ Microprocessor Controls	X			
ReliaTel™ Options Module			X	
Thermostat				X
Trane® Air-Fi® Wireless Communication Interface		X		
Trane® Communications Interface (TCI)			X	
Wireless Zone Sensor				X
Zone Sensors and Remote Zone Sensors				X

(a) Refer to model number description for option availability

Table 2. Voyager™ Light Commercial features - standard and optional

	Standard Features	Options[a]		
		Factory Installed	Factory or Field Installed	Field Installed
1-year Limited Parts Warranty	X			
5-year Limited Compressor Warranty	X			
5-year Limited Heat Exchanger Warranty (12½–17½ Tons); 1 Year on 20 and 25 Tons	X			
2-in MERV 8 Filters or 2-in MERV 13 Filters with Filter Removal Tool		X		
2-in throwaway filters	X			
3 Stages of Cooling Capability on 12½–20 Tons, 4 Stages of Cooling Capability on 25 Tons (High Efficiency Units Only)	X			
Anti-Short Cycle Timer	X			
Barometric Relief[b]	X			
Belt Drive Motors	X			
Clogged Filter/Fan Failure Switch			X	
CO_2 Sensor				X
CO_2 Sensor Wiring (Wiring Only)		X		
Colored and Numbered Wiring	X			
Complete Coat™ Microchannel Condenser Coil		X		
Condensate Overflow Switch		X		
Crankcase Heaters	X			
Dedicated Airflow	X			

Table 2. Voyager™ Light Commercial features - standard and optional (continued)

	Standard Features	Options[a]		
		Factory Installed	Factory or Field Installed	Field Installed
Dehumidification (Hot Gas Reheat)		X		
Digital Display Zone Sensor				X
Discharge Air Temperature Sensing Kit			X	
Easy Access Low Voltage Terminal Board (LTB)	X			
Economizer - Standard, Downflow			X	
Economizer - Standard, Horizontal				X
Electric Heaters			X	
Fault Detection and Diagnostics (FDD)		X		
Foil-Faced and Edge Captured Insulation	X			
Frostat™			X	
High and Low Static Drive Kits				X
High Efficiency Drum and Tube Heat Exchanger	X			
High Efficiency Gas Heat with Hot Surface Ignition	X			
High Efficiency Motors		X		
High Pressure Cutout	X			
High Short Circuit Current Rated (SCCR) Electrical Subsystem		X		
Hinged Access Doors		X		
Human Interface - 5 inch Color Touchscreen		X		
IAQ Sloped Condensate Drain Pan	X			
Indoor Fan Motor Shaft Grounding Ring			X	
Liquid Line Refrigerant Drier	X			
Low Ambient Cooling to 0°F	X			
Low Leak Economizer - Downflow			X	
Low Leak Economizer - Downflow and Horizontal				X
LP Conversion Kit				X
Manual Outside Air Dampers				X
Microchannel Type Condenser Coils	X			
Microchannel Type Evaporator Coils (Standard Efficiency Only)	X			
Modulating Gas Heat Furnace with a 2.5:1 Turndown Ratio		X		
Motorized Outside Air Dampers				X
Multi-Speed Indoor Fans		X		
Multiple Zone Variable Air Volume (MZVAV)		X		
Operating Charge of R-410A	X			
Outside Air Measuring/Monitoring Control (Traq Dampers)				X
Oversized Motors			X	
Phase Monitor	X			
Powered Exhaust				X
Powered or Unpowered Convenience Outlet		X		
Provisions for Through-the-Base Gas Connections	X			
Quick Access Panels	X			
Quick Adjust Idler Arm Pulley	X			
Reference or Comparative Enthalpy			X	

Table 2. Voyager™ Light Commercial features - standard and optional (continued)

	Standard Features	Options[a]		
		Factory Installed	Factory or Field Installed	Field Installed
Remote Potentiometer				X
Roof Curb (Downflow Only)				X
Single Point Power	X			
Single Side Service	X			
Single Zone Variable Air Volume (SZ VAV)		X		
Stainless Steel Drain Pan		X		
Stainless Steel Heat Exchanger with 10 Year Warranty		X		
Standardized Components	X			
Supply and/or Return Air Smoke Detector		X		
Thermal Expansion Valve	X			
Through the Base Electrical Access		X		
Through the Base Electrical with Circuit Breaker		X		
Through the Base Electrical with Disconnect Switch		X		
Through the Base Gas Piping		X		
Tool-less Hail Guards			X	
U-shaped Airflow Pattern	X			
Variable Frequency Drive (Multispeed Indoor Fan, VAV, and Single Zone VAV)	X			
Ventilation Override Accessory				X

(a) Refer to model number description for option availability.
(b) Barometric relief comes standard with economizers.

Note: *Most Factory Installed Options (FIOPS) available for Downflow Air Discharge units only. Please verify with ordering system for availability.*

Standard Features

Anti-Short Cycle Timer

Provides a 3 minute minimum “ON” time and 3 minute “OFF” time for compressors to enhance compressor reliability by assuring proper oil return.

Barometric Relief

Designed to be used on downflow units, barometric relief is an unpowered means of relieving excess building pressure.

Colored and Numbered Wiring

Save time and money tracing wires and diagnosing the unit.

Compressors

Voyager contains the best compressor technology available to achieve the highest possible performance. Dual compressors are outstanding for humidity control, light load cooling conditions and system back-up applications. Dual compressors are available on all models and allow for efficient cooling utilizing three stages of compressor operation (high efficiency 12½–20 Tons models only). 25 tons high efficiency units have 4 stages of cooling with a single compressor and tandem set (similar to variable speed).

Controls—ReliaTel™

ReliaTel microprocessor controls provide unit control for heating, cooling and ventilating utilizing input from sensors that measure indoor and outdoor temperature and other zone sensors. ReliaTel also provides outputs for building automation systems and expanded diagnostics. For a complete list of ReliaTel offerings, refer to "Other Benefits," p. 17.

Conversionless Units

The dedicated design units (either downflow or horizontal) require no panel removal or alteration time to convert in the field — a major cost savings during installation. Horizontal units come complete with duct flanges so the contractor doesn't have to field fabricate them. These duct flanges are a time and cost saver.

Crankcase Heaters

These band or insertion heaters provide improved compressor reliability by warming the oil to prevent migration during off-cycles or low ambient conditions. These are standard on all Voyager models.

Discharge Line Thermostat

A bi-metal element discharge line thermostats installed as a standard feature on the discharge line of each system. This standard feature provides extra protection to the compressors against high discharge temperatures in case of loss of charge, extremely high ambient and other conditions which could drive the discharge temperature higher.

Efficiencies

Standard or High Efficiency Cooling available.

Easy Access Low Voltage Terminal Board

Foil Faced Insulation

Voyager's Low Voltage Terminal Board is external to the electrical control cabinet. It is extremely easy to locate and attach the thermostat wire and test operation of all unit functions. This is another cost and time saving installation feature.

All panels in the evaporator section of the unit have cleanable foil-faced insulation. All edges are either captured or sealed to ensure no insulation fibers get into the airstream.

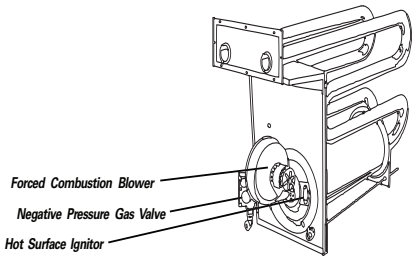
Fork Pocket Access

Voyager™ has the ability to be forked from 3 sides.

Heat Exchanger—Drum and Tube

The cabinet features a drum and tube heat exchanger (pictured right) that is manufactured using aluminized steel with stainless steel components for maximum durability.

The requirement for cycle testing of heat exchangers is 10,000 cycles by ANSI Z21.47. This is the standard required by both UL and AGA for cycle test requirements.



Trane requires the design to be tested to 2½ times this current standard. The drum and tube design has been tested and passed over 150,000 cycles, which is over 15 times the current ANSI cycling requirements. The negative pressure gas valve is used in the standard furnaces. This is one of our unique safety features. Modulating heaters use a pressure switch to ensure that the blower motor is operating before the gas valve is allowed to open.

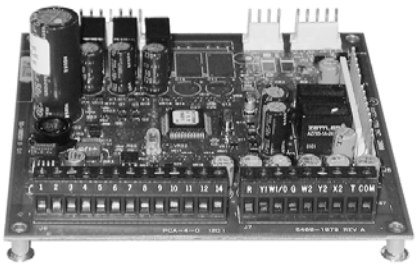
The forced combustion blower supplies pre-mixed fuel through a single stainless steel burner screen into a sealed drum where ignition takes place. It is more reliable to operate and maintain than a multiple burner system. Modulating furnaces contain a metal fiber material to ensure proper flame distribution at low fire. The hot surface ignitor is a gas ignition device which doubles as a safety device utilizing a continuous test to prove the flame. The design is cycle tested at the factory for quality and reliability. Our gas/electric rooftops exceed all California seasonal efficiency requirements and perform even better than the California NO_X emission requirements.

Low Ambient Cooling

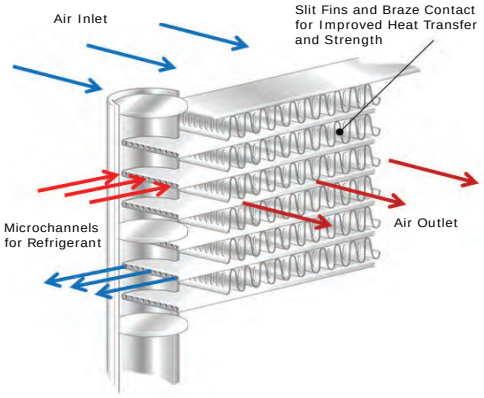
All Voyager microprocessor units have cooling capabilities down to 0°F as standard.

Low Voltage Connections

The wiring of the low voltage connections to the unit and the zone sensors is as simple as 1-1, 2-2, and 3-3. This simplified system makes it easy for the installer to wire.



Microchannel Coils



Microchannel coils are all-aluminum coils with fully-brazed construction. This design reduces risk of leaks and provides increased coil rigidity — making them more rugged on the jobsite. Their flat streamlined tubes with small ports and metallurgical tube-to-fin bond allow for exceptional heat transfer.

Microchannel all-aluminum construction provides several additional benefits:

- Light weight (simplifies coil handling)
- Easy to recycle
- Minimize galvanic corrosion

Motors

All indoor fan motors are belt drive as standard.

Pressure Cutouts

Low and high pressure cutouts are standard on all Voyager models.

Phase Monitor

Voyager features a three-phase line monitor module that protects against phase loss, phase reversal and phase unbalance. It is intended to protect compressors from reverse rotation. It has an operating input voltage range of 190–600 Vac, and LED indicators for ON and FAULT. There are no field adjustments and the module will automatically reset from a fault condition.

Quick-Access Panels

Remove three or more screws for access to the standardized internal components and wiring.

Quick-Adjust Slider Plate

With the Quick-Adjust Slider Plate (pictured right), the belt and sheaves can be quickly adjusted without moving the mounted fan motor. The result is a major savings in time and money.

Single Point Power

A single electrical connection powers the unit.

Single Side Service

Single side service is standard on all units.

Sloped Drain Pans

Every Voyager unit has a non-corrosive, sloped drain pan made of pre-painted steel and standard on all units.

Standardized Components

Components are placed in the same location on all Voyager units. Familiarize yourself with one Voyager and you are familiar with every Voyager. Due to standardized components throughout the Voyager line, contractors/owners can stock fewer parts.

U-Shaped Airflow Pattern

The U-shaped airflow allows for improved static capabilities.

Variable Frequency Drives - VFD (Multispeed Indoor Fan, VAV, and SZ VAV Only)

Variable Frequency Drives are factory installed and tested to provide supply fan motor speed modulation. VFDs on the supply fan, as compared to inlet guide vanes or discharge dampers, are quieter, more efficient, and are eligible for utility rebates. All VFDs are designed to allow bypass if required. Bypass control will simply provide full nominal airflow in the event of drive failure. Bypass mode is indicated in the unit wiring manual. Modulating gas heat models with SZVAV allow tighter space temperature control with less temperature swing.

Variety of Options[1]

Factory Installed Options

Trane® Air-Fi® Wireless

Trane® Air-Fi® wireless communication is a reliable, flexible solution that frees you from the hassles associated with wired components for your building controls system. With Air-Fi® wireless, you get easy problem solving, efficient performance, and cost savings over the life of the equipment.

CO_2 Sensor Wiring

This is the unit wiring for field installed CO_2 sensors. Factory-installed CO_2 sensor wiring saves time and ensures proper unit connections for the field installed CO_2 sensor kits.

Complete Coat™ Condenser Coil

The cathodic epoxy type electrodisposition coating is formulated for high edge build to a number of different types of heat exchangers. The coating is selected to provide excellent resistance and durability to corrosive effects of alkalies, acids, alcohols, petroleum, seawater, salt air, and corrosive environments. This coating is available for microchannel coils only.

Circuit Breaker (Required with Through-the-Base Electrical)

This option is a factory installed thermal magnetic, molded case, HACR Circuit Breaker with provisions for through the base electrical connections. Available on all models.

Condensate Overflow Switch

A condensate overflow switch is available to shut the unit down in the event that the condensate drain line becomes clogged. This option protects the unit from water overflowing from the drain pan and entering the base of the units.

Dehumidification (Hot Gas Reheat)

This option allows for increased outdoor air ventilation. It reduces humidity levels while increasing comfort level in the air space. Cooling can operate without a demand for dehumidification. The hot gas reheat coil is designed to deliver maximum reheat temperature.

[1] Refer to "Model Number Description," p. 24 for option availability.

Disconnect Switch (Required with Through-the-Base Electrical)

Factory installed 3-pole, molded case, disconnect switch with provisions for through the base electrical connections are available. Available on all models.
Codes require a method of assured unit shutdown for servicing. Field-installed disconnects sometimes interfere with service access. Factory installation of unit disconnects reduces costs, assures proper mounting and provides the opportunity to upgrade to unit circuit breaker protection.

Fault Detection and Diagnostics (FDD)

This offering meets the mandatory requirement of CA Title 24 of fully configurable diagnostics allowing fault history and reading fault codes at the unit.This option provides detection of the following faults: Air temperature sensor failure/fault and notification of acceptable economizer mode.The FDD system shall be certified by the Energy Commission as meeting the requirements.

High Efficiency Filtration

Voyager units offer a variety of high efficiency filtration options. MERV 8 and MERV 13 filters provide additional filtration beyond the capabilities of typical 2-inch throwaway filters. Also, when MERV 8 or MERV 13 filters are ordered, units come equipped with a filter removal tool.

High Efficiency Motors

High efficiency motors are available with efficiency ratings from 86.5 up to 91.0. It is not available for all models.

High Short Circuit Current Rating (SCCR)

Voyager rooftop units now have an optional high short circuit current rated electrical subsystem for units with an MOP above 60A. This option is a perfect fit for applications that need protection against high potential fault currents. This option also includes individual over current protection for each compressor and the indoor fan, as well as a dedicated over current protection to the condenser fan motor(s). When the high SCCR is ordered, the control box will have components separated into two sections - high and low voltage components.

Hinged Access Doors

These doors permit easy access to the filter, fan/heat, and compressor/control sections. They reduce the potential roof damage from screws or sharp access door corners.

Human Interface

The 5 inch Color Touchscreen Human Interface provides an intuitive user interface to the rooftop unit that speeds up unit commissioning, shortens unit troubleshooting times, and enhances preventative maintenance measures. The human interface includes several features such as:

- Data trending capabilities by means of time series graphs
- Historical alarm messages
- Real-time sensor measurements
- On board system setpoints
- USB port that enables the downloading of component runtime information as well as trended historical sensor data
- Customizable reports

Modulating Gas Heat with a 2.5:1 Turndown Ratio

Upon receiving a call for heat, modulating gas heat units with a 2.5:1 turndown ratio light their burner at full fire (100%). After the burner is lit, the unit controls will monitor the discharge air temperature and modulate the input rate down to match the load.

Note: *Modulating gas heat units are equipped with a stainless steel heat exchanger as standard.*

Multi-Speed Indoor Fan System

Multi-speed indoor fan system is designed for use in applications for meeting the minimum requirement of CA Title 24. This system incorporates a multi-speed fan control to change the speed of the fan to 66% of full airflow based off compressor stages.

Multiple-Zone VAV Control

A multiple-zone VAV (MZVAV) system consists of a packaged rooftop unit that serves several individually controlled zones. Each zone is equipped with a VAV terminal unit that varies the quantity of air delivered to maintain the desired temperature in that zone. The rooftop unit controller varies the speed of the indoor fan to maintain the static pressure in the supply ductwork at a setpoint, ensuring that all zones receive the necessary quantity of air. In addition, cooling capacity is cycled to maintain the supply air temperature at the desired setpoint.

For decades, Trane has been an industry leader in rooftop VAV systems. Now, multiple-zone VAV control is available in Trane's light commercial rooftop platform (3-25 tons).

Novar Unit Controls

Novar 3051 and 2024 are available for Voyager Cooling and Gas/Electric models.

Powered or Unpowered Convenience Outlet

This option is a GFCI, 120V/15amp, 2-plug, convenience outlet, either powered or unpowered. This option can only be ordered when Through the Base Electrical with either the Disconnect Switch or Circuit Breaker option is ordered. This option is available on all models.

Single Zone VAV - One Zone Variable Air Volume Mode

Note: *Single Zone VAV is designed to be used with a zone sensor. If a unit is configured for Single Zone VAV operation but is connected to a thermostat, the control will revert to multi-speed (2-Speed) indoor fan control. (See "Multi-Speed Indoor Fan System" above.)*

Single zone VAV is designed for use in single zone applications like gymnasiums, auditoriums, manufacturing facilities, retail box stores, and any large open spaces, where there is a lot of diversity in the load profile. Single Zone VAV (SZ VAV) is an ideal replacement to "yesterday's" constant volume (CV) systems, by reducing operating costs while improving occupant comfort. SZ VAV systems combine Trane application, control and system integration knowledge to exactly match fan speed with cooling and heating loads, regardless of the operating condition. Trane algorithms meet/exceed ASHRAE 90.1- 2010, SZ VAV energy-saving recommendations, and those of CA Title 24. The result is an optimized balance between zone temperature control and system energy savings. Depending on your specific application, energy savings can be as much as 20%.

Note: *Building system modeling in energy simulation software like TRACE is recommended to evaluate performance improvements for your application.*

SZ VAV is fully integrated into the ReliaTel Control system and is available today. It provides the simplest and fastest commissioning in the industry through proven factory-installed, wired, and tested system controllers. All control modules, logic and sensors are factory installed, and tested to assure the highest quality and most reliable system available. This means no special programming of algorithms, or hunting at the jobsite for sensors, boards, etc. that need to be installed in the field. Single zone VAV is a quick and simple solution for many applications and is available from your most trusted rooftop VAV system solution provider- Trane.

Stainless Steel Drain Pan

For excellent corrosion and oxidation resistance, the optional stainless steel drain pan provides a cleanable surface that complement other IAQ solutions such as high efficiency filtration (MERV 8 or 13), demand control ventilation (CO_2), and hot gas reheat.

Stainless Steel Heat Exchanger

The optional stainless steel heat exchanger is constructed of 439 stainless steel. It is resistant to corrosion and oxidation and easy to clean. The high strength to weight ratio allows for high ventilation rates with gas units and comes standard with a modulating gas heat option. With this option, a 10-year stainless steel heat exchanger warranty is standard.

Supply, Return, and Plenum Air Smoke Detector

With this option (pictured right) installed, if smoke is detected, all unit operation will be shut down. Reset will be manual at the unit. Return Air Smoke Detectors require minimum allowable airflow when used with certain models.

Supply and/or Return Smoke Detectors may not be used with the Plenum Smoke Detector.

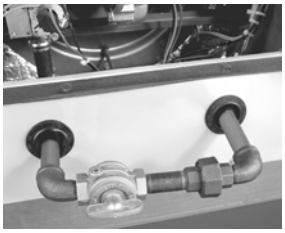
Through-the-Base Electrical Utility Access

An electrical service entrance shall be provided allowing electrical access for both control and main power connections inside the curb and through the base of the unit. Option will allow for field installation of liquid-tight conduit and an external field installed disconnect switch.

Factory provided through the base openings simplify wiring and piping. Because these utility openings frequently minimize the number of roof penetrations, the integrity of roofing materials is enhanced.

Through-the-Base Gas Piping (Gas/Electric Only)

This option (pictured right) shall have all piping necessary including, black steel, manual gas shut-off valve, elbows, and union. This assembly will require minor field labor to install.



Factory or Field Installed Options[1]

BACnet® Communications Interface

The BACnet® communications interface allows the unit to communicate directly with a generic open protocol BACnet® MS/TP Network Building Automation System Controls.

Clogged Filter/Fan Failure Switch

A dedicated differential pressure switch is available to achieve active fan failure indication and/or clogged filter indication. These sensors allow a zone sensor service light or Integrated Comfort System to indicate a dirty filter or a fan that's not working. The field installation charges for these valuable feedback devices often eliminate them from consideration. Factory installation can make such features a good investment.

Discharge Air Temperature Sensing Kit

Provides true discharge air temperature sensing in heating models. The kit is functional only with the ReliaTel Options Module.

Economizer - Standard, Downflow

Economizers are equipped with either dry bulb, reference, or comparative enthalpy sensing. These economizers provide free cooling as the outdoor temperature and/or humidity decreases. Correctly installed, they offer a valuable energy savings. Factory-installed economizers save time and ensure proper installation.

Note: *Factory-installed economizers require some field set-up.*

Economizer - Low Leak, Downflow

This accessory meets low leak requirements for ASHRAE 90.1, IECC, and CA Title 24 standards (3 cfm/ft^2@1" wg exterior air, 4 cfm/ft^2@1" wg return air). This option allows 100% outdoor air supply from 0-100% modulating dampers and is standard with barometric relief. It can be paired with powered exhaust for additional building pressure relief. This option can be paired with or without Fault Detection and Diagnostics (FDD) to meet current mandatory CA Title 24 requirements. Available on downflow units only. The economizers come with three control options, dry bulb and reference or comparative enthalpy (optional).

Electric Heaters

Electric heat modules are available within the basic unit. If ordering the Through the Base Electrical option with an Electrical Heater, the heater must be factory installed.

Frostat™

A capillary bulb embedded in the face of the evaporator coil or a thermostat on the suction line monitors coil temperature to prevent evaporator icing and protect the compressor. Recommended for applications with low leaving air temperatures, low airflow and/or high latent load applications.

Note: *Frostat is standard on all Single-Zone VAV, Multiple-Zone VAV, and high efficiency units.*

[1] Refer to "Model Number Description," p. 24 for option availability.

Indoor Fan Motor Shaft Grounding Ring

Shaft grounding rings are used on all VFD driven motors to provide a conductive discharge path away from the motor bearings to ground. Bearing Protection Rings shall be maintenance free circumferential rings of conductive micro fibers that discharge voltages to ground.

LonTalk® Communications Interface

The LonTalk communications interface allows the unit to communicate as a Tracer™LCI-V device or directly with generic LonTalk Network Building Automation System Controls.

Oversized Motors

Factory or field installed oversized motors are available for high static applications.

Reference or Comparative Enthalpy

Measures and communicates humidity while maximizing comfort control.

ReliaTel Options Module (RTOM)

The RTOM monitors the supply fan proving, clogged filter, supply air temperature, exhaust fan setpoint, dehumidification setpoint, supply air tempering, Frostat™ and smoke detector.

Note: *The RTOM is standard on high efficiency units.*

Tool-less Hail Guards

Tool-less, hail protection quality coil guards (pictured right) shall be either factory or field-installed for condenser coil protection. This option protects the condenser coil from vandalism and/or hail damage.

Trane Communication Interface (TCI)

Available factory or field installed. This module when applied with the ReliaTel™ easily interfaces with Trane's Integrated Comfort™ System.

Field Installed Options[1]

CO_2 Sensor - Demand Control Ventilation (DCV)

Demand-controlled ventilation (DCV) is a control strategy that responds to the actual demand (need) for ventilation by regulating the rate at which the HVAC system brings outdoor air into the building. A CO_2 sensor measures the concentration (parts per million, ppm) of CO_2 (Carbon Dioxide) in the air. As the CO_2 concentration changes, the outside air damper modulates to meet the current ventilation needs of the zone. The CO_2 sensor kit is available as a field installed accessory. Two field installed kits are offered; CO_2 sensor and wiring or CO_2 sensor only. The CO_2 sensor only kit should be ordered with factory installed CO_2 sensor wiring. Factory installed CO_2 sensor wiring saves set-up time and ensures proper unit connections for the CO_2 sensor.

Dampers

0–25 percent manual or 0–50 percent motorized outside air dampers are available.

Digital Display Zone Sensor

The Digital LCD (Liquid Crystal Display) zone sensor has the look and functionality of standard zone sensors.

[1] Refer to "Model Number Description," p. 24 for option availability.

Economizer - Standard, Horizontal

Economizers are equipped with either dry bulb or reference or comparative enthalpy sensing. These economizers provide free cooling as the outdoor temperature and/or humidity decreases. Correctly installed, they offer a valuable energy savings.

Economizer - Low Leak, Downflow and Horizontal

This accessory meets low leak requirements for ASHRAE 90.1, IECC, and CA Title 24 standards (3 cfm/ft^2@1" wg exterior air, 4 cfm/ft^2@1" wg return air). This option allows 100% outdoor air supply from 0-100% modulating dampers and is standard with barometric relief. It can be paired with powered exhaust for additional building pressure relief.

Humidity Sensor/Humidistat

Used in conjunction with our Dehumidification (Hot Gas Reheat) units to provide outstanding humidity control and comfort. Humidity sensors can be wall or duct mounted and set for levels between 40% and 60%.

LP Conversion Kit

Provided for field conversion of gas/electric units from natural gas to propane.

Outside Air Measuring/Monitoring Control (Traq Dampers)

Quantity of fresh air entering the unit will be measured and monitored via Trane UC400 controller and series of pressure sensing rings mounted at the outside air intake.

Powered Exhaust

This option is available on downflow units and provides exhaust of the return air, when using a downflow economizer, to maintain proper building pressurization. Great for relieving most building overpressurization problems.

Remote Potentiometer

When properly installed in the economizer control circuitry, this accessory provides a remote variable resistance to enable the operator to adjust the minimum damper position.

Roof Curbs

Available for downflow units. Only two roof curbs for the entire Voyager line simplifies curb selection.

Static Drive Accessories

Available on many models, this high and low static drive accessories extend the capability of the standard motor. Avoid expensive motors and operating costs by installing this optimized sheave accessory.

Ventilation Override Accessory

With the Ventilation Override Accessory installed, the unit can be set to transition to up to 3 different pre-programmed sequences for Smoke Purge, Pressurization and Exhaust. The transition occurs when a binary input on the RTOM is closed (shorted). This would typically be a hard wired relay output from a smoke detector or fire control panel. The ventilation override kit is available as a field installed accessory.

Wireless Zone Sensor

LCD display that provides heat, cool, auto, or off. Includes two temperature setpoints and a lockable setting with °F or °C indicators.

Zone Sensors/Thermostats

Available in programmable, automatic and manual styles.

Note: *Zone sensors required for units configured for Single Zone VAV indoor fan system control to enable Single Zone VAV functionality.*

Other Benefits

Cabinet Integrity

For added water integrity, Voyager has a raised 1-1/8-inch lip around the supply and return of the downflow units to prevent water from blowing into the ductwork.

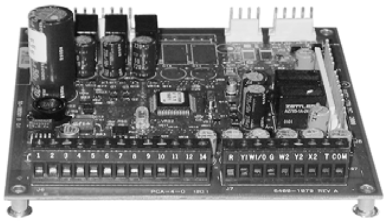
Easy to Install, Service and Maintain

Because today's owners are very cost-conscious when it comes to service and maintenance, Voyager was designed with direct input from service contractors. This valuable information helped to design a product that would get the serviceman off the job quicker and save the owner money. Voyager does this by offering outstanding standard features enhanced by a variety of factory and field installed options, multiple control options, rigorously tested proven designs and superior product and technical support.

Outstanding Airflow Distribution

Airflow is outstanding. The Voyager can replace an older machine with old ductwork and, in many cases, improve the comfort through better air distribution.

ReliaTel™ Controls Benefits



ReliaTel controls provide unit control for heating, cooling and ventilating by utilizing input from sensors that measure outdoor and indoor temperature.

Quality and Reliability are enhanced through ReliaTel control and logic:

- Prevents the unit from short cycling, considerably improving compressor life.
- Ensures the compressor will run for a specific amount of time which allows oil to return for better lubrication, enhancing the reliability of the compressor.

Voyager with ReliaTel reduces the number of components required to operate the unit, thereby reducing possibilities for component failure.

ReliaTel Makes Installing and Servicing Easy

ReliaTel eliminates the need for field installed anti-shortcycle timer and time delay relays.

ReliaTel controls provide these functions as an integral part of the unit. The contractor no longer has to purchase these controls as options and pay to install them. The wiring of the low voltage connections to the unit and the zone sensors is as easy as 1-1, 2-2, and 3-3. This simplified system makes wiring easier for the installer.

ReliaTel Makes Testing Easy

ReliaTel requires no special tools to run Voyager unit through its paces. Simply place a jumper between Test 1 and Test 2 terminals on the Low Voltage Terminal Board and the unit will walk through its operational steps automatically.

The unit automatically returns control to the zone sensor after stepping through the test mode a single time, even if the jumper is left on the unit.

As long as the unit has power and the “system on” LED is lit, ReliaTel is operational. The light indicates that the controls are functioning properly.
ReliaTel features expanded diagnostic capabilities when utilized with Trane Integrated Comfort™ Systems.
Some zone sensor options have central control panel lights which indicate the mode the unit is in and possible diagnostic information (dirty filters for example).

Other ReliaTel Benefits

The ReliaTel built-in anti-shortcycle timer, time delay relay and minimum “on” time control functions are factory tested to assure proper operation. ReliaTel softens electrical “spikes” by staging on fans, compressors and heaters. Intelligent Fallback is a benefit to the building occupant. If a component goes astray, the unit will continue to operate at predetermined temperature setpoint.

Intelligent Anticipation is a standard ReliaTel feature. It functions continuously as ReliaTel and zone sensor(s) work together in harmony to provide much tighter comfort control than conventional electro-mechanical thermostats.

The same ReliaTel Board fits all Packaged Gas/Electric, Cooling, and Heat Pump models. This provides standardization of parts for contractors. Less money is tied up in inventory with ReliaTel.

Rigorous Testing

All of Voyager’s designs were rigorously rain tested at the factory to ensure water integrity. Voyager units incorporate either a one piece top or the Trane-Tite-Top (T3). Each part of the top (either two or three pieces) overlaps in such a way that water cannot leak into the unit. These overlapped edges are gasketed and sealed to ensure superior water integrity.

Actual shipping tests were performed to determine packaging requirements. Units were test shipped around the country to determine the best packaging. Factory shake and drop tests were used as part of the package design process to help assure that the unit arrives at the job site in top condition.

Rigging tests include lifting a unit into the air and letting it drop one foot, assuring that the lifting lugs and rails hold up under stress. For the microchannel coils, the supplier will perform the leak check at 450 psig. The completely assembled refrigerant system is leak tested at a minimum of 225 psig with a refrigerant and nitrogen mixture.

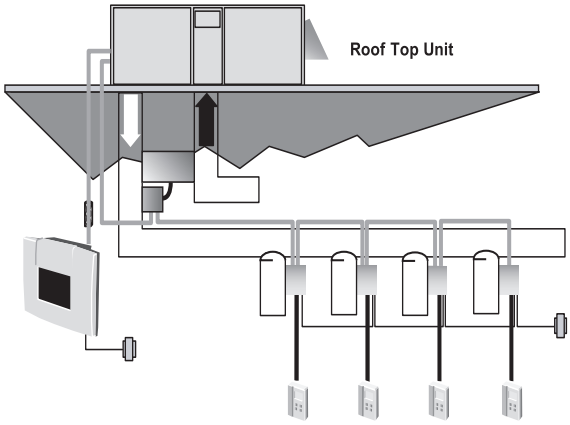
All parts are inspected at the point of final assembly. Sub-standard parts are identified and rejected immediately. Every unit receives a 100% unit run test before leaving the production line to make sure it lives up to rigorous Trane requirements.

Unmatched Support

Trane Sales Representatives are a Support Group that can assist you with:

- Product
- Application
- Service
- Training
- Special Applications
- Specifications
- Computer Programs and much more

VariTrac® – Changeover-Bypass System



A changeover-bypass system consists of a packaged rooftop unit that serves several individually controlled zones. Each zone is equipped with a damper that varies the quantity of air delivered to maintain the desired temperature in that zone. However, unlike a conventional multiple-zone VAV system, the fan inside the rooftop unit operates at a constant speed. Any unneeded air is diverted to the return air stream through a bypass damper.

The term “changeover” refers to how this system handles the cooling and heating requirements of the building. The central rooftop unit can provide either cooled or heated air, and it makes this decision by periodically “polling” the zones.

Application Considerations

Application of this product should be within the cataloged airflow and cooling considerations.

Air-Fi® Wireless

Please refer to Air-Fi® Network Design Installation, Operation, and Maintenance manual BAS-SVX55*-EN for additional details on applications with factory installed wireless.

Barometric Relief

This product line offers a barometric relief damper for use in conjunction with economizer option. This accessory consists of gravity dampers which open with increased pressure. As the building air pressure increases, the pressure in the unit return air section also increases, opening the dampers and relieving the conditioned space.

Note: *The effectiveness of barometric relief damper during economizing operation is limited, depending on the pressure drop of the return-air path. For some applications, powered exhaust may be better suited for preventing over-pressurization when economizing.*

Clearance Requirements

The recommended clearances identified with unit dimensions should be maintained to ensure adequate serviceability, maximum capacity and peak operating efficiency. Actual clearances which appear inadequate should be reviewed with local Trane sales personnel.

Complete Coat™ Microchannel Condenser Coil

The cathodic epoxy type electrodisposition coating is formulated for high edge build to a number of different types of heat exchangers. The coating is selected to provide excellent resistance and durability to corrosive effects of alkalies, acids, alcohols, petroleum, seawater, salt air, and corrosive environments. This coating shall be available on microchannel condenser coils.

Condensate Trap

The evaporator is a draw-through configuration. A trap must be field provided prior to start-up on the cooling cycle.

Dual Compressors — 3 Stages of Cooling (12½ to 20 Tons)

Using the ReliaTel™ microprocessor controls, the Voyager™ high efficiency line can provide three stages of cooling, allowing for a more efficient and comfortable cooling operation.

Important: *All high efficiency products will have intertwined evaporator coils as standard. No face split coils are allowed with 3 or 4 stages of cooling.*

Note: *Standard efficiency models do not have 3 stages of cooling operation.*

4 Stages of Cooling (25 Tons)

25 tons high efficiency units have 4 stages of cooling with a single compressor and tandem set (similar to variable speed).

Heating Operation

The heat exchanger is manufactured with aluminized steel. To prevent condensation within the heat exchanger, do not exceed 50 percent outside air or a minimum mixed air temperature of 40°F.

Optional Stainless Steel Heat Exchanger

The optional stainless steel heat exchanger is manufactured with 439 stainless steel. To prevent corrosion and prolong heat exchanger reliability, the minimum mixed air temperature allowed across the heat exchanger is 20°F. The stainless steel heat exchanger option is an excellent option that compliments the dehumidification package and is used in conjunction with the modulating heat option. Whenever high outside air or outside applications exist, these options should be utilized.

Low Ambient Cooling

The Voyager line features, with ReliaTel™ microprocessor controls, low ambient cooling down to 0°F. A frostat needs to be included in the selection when Low Ambient Cooling is required. Contact your local Trane Representative for more assistance with low ambient cooling applications.

Unit Pitch

These units have sloped condensate drain pans. Units must be installed level. Any unit slope must be toward access side of the unit.

Low Airflow

Unit applications designed for airflow below 320 cfm/ton are available on cooling only units and gas heat units equipped with modulating gas heat. Units must be high efficiency units with dehumidification (hot gas reheat) or TXV with Frostat and Crankcase heaters. Electric heat is restricted below 320 cfm/ton. Standard efficiency units are restricted below 250 cfm/ton. Multi-speed or single zone VAV applications are capable of running below 320 cfm/ton during low speed airflow operation, but "full" airflow must be set to 320 cfm/ton or higher.

VariTrac®

VariTrac is for Voyager units with constant-speed indoor fan control. It is not recommended for use with Multiple-Speed Indoor Fan Control, Single-Zone VAV Control, or Multiple-Zone VAV Control.

Selection Procedure

Cooling Capacity

Note: *Cooling Capacity Procedure is the same for cooling (T*) and gas/electric (Y*).*

Step 1.

Calculate the building's total and sensible cooling loads at design conditions. Use the following calculation methods or any other standard accepted method. Factors used in unit selection:

Total Cooling Load: 180 MBh
Sensible Cooling Load: 126 MBh
Airflow: 6000 cfm
Electrical Characteristics: 460/60/3
Summer Design Conditions: Entering Evaporator Coil: 80 DB, 67 WB Outdoor Ambient: 95 DB
External Static Pressure: 0.39 in. wg
Rooftop—downflow configuration
Accessories

- Roof curb
- Economizer
- Electric Heat

Step 2.

As a starting point, a rough determination must be made of the size of the unit. The final selection will be made after examining the performance at the given conditions. Divide the total cooling load by nominal Btu/h per ton (12 MBh per ton); then round up to the nearest unit size.

180 MBh / 12 MBh = 15.0 tons

Step 3.

Table 16, p. 39 shows that a TSD180F4 has a **gross** cooling capacity of 186.1 MBh and 139.1 MBh sensible capacity at 6000 cfm and 95 DB outdoor ambient with 80 DB, 67 WB air entering the evaporator.

To Find Capacity at Intermediate Conditions Not in the Table.

When the design conditions are between two numbers that are in the capacity table, interpolation is required to approximate the capacity.

Note: *Extrapolation outside of the table conditions is not recommended.*

Step 4.

In order to select the correct unit which meets the building's requirements, the fan motor heat must be deducted from the gross cooling capacity. The amount of heat that the fan motor generates is dependent on the effort by the motor—cfm and static pressure. To determine the total unit static pressure you add the external static pressure to the additional static related by the added features:

External Static Duct System	0.39 wg
Standard Filter 2 in. from Table 85, p. 115	0.06 wg
Economizer from Table 85, p. 115 (100% Return Air)	0.04 wg
Electric Heater Size 36 kW from Table 85, p. 115	0.07 wg
(Reference "Heating Capacity," p. 23 for determination of heater size.) No additional static add for gas/heat exchanger.	
Total Static Pressure	0.56 wg

Note: *The Evaporator Fan Performance Table 45, p. 78 has already accounted for the pressure drop for standard filters and wet coils (see note below Table 45). Therefore, the actual total static pressure is 0.56 - 0.06 (from Table 85, p. 115 = 0.50 wg).*

With 6000 cfm and 0.50 wg.
Table 45, p. 78 shows 1.95 bhp for this unit. Note below the table gives a formula to calculate Fan Motor Heat,
3.15 x bhp = MBh.
3.15 x 1.95 = 6.14 MBh.

Now subtract the fan motor heat from the gross cooling capacity of the unit:
Net Total Cooling Capacity = 186.1 MBh - 6.14 = 179.96 MBh.

Net Sensible Cooling Capacity = 139.1 MBh - 6.14 = 132.96 MBh.

Step 5.

If the performance will not meet the required load of the building—total or sensible cooling load, try a selection at the next higher size unit.

Heating Capacity

Note: *Heating capacity procedures DIFFER for cooling (T*) and gas/electric (Y*) units.*

Step 1.

Calculate the building heating load.

Step 2.

Size the system heating capacity to match the calculated building heating load. The following are building heating requirements:

T* cooling units:
460 volt/3 phase Power Supply
Total heating load of 115.0 MBh
6000 cfm

The electric heat accessory capacities are listed in Table 87, p. 117. From the table, a 36 kW heater will deliver 122.94 MBh at 480 volts. In order to determine capacity at 460 volts, the heater voltage correction factor from Table 88, p. 118 must be used. Therefore, 122.94 MBh x .94 (voltage correction factor) = 115.6 MBh.

Y* gas/electric: Fuel natural gas total heating load of 195 MBh. Table Table 86, p. 117 shows 250 MBh and 350 MBh input models. The output capacities of these furnaces are 203 MBh and 284 MBh respectively. The low heat model with 203 MBh output best matches the building requirements.

Air Delivery Selection

Note: *Air Delivery procedures is the same for cooling (T*) and gas/electric (Y*) units.*

External static pressure drop through the air distribution system has been calculated to be 0.50 inches of water. From Table 85, p. 115 static pressure drop through the economizer is 0.04 and the 36 kW heater is 0.07 inches of water (0.39 + 0.04 + 0.07). Enter Table 45, p. 78 for a TSD180F4 at 6000 cfm and 0.50 static pressure. The standard motor at 533 rpm will give the desired airflow at a rated bhp of 1.92.

Model Number Description

Digit 1 — Unit Type

T = Packaged Cooling, Electric Heat
Y = Packaged Cooling, Gas Heat

Digit 2 — Efficiency

S = Standard Efficiency
H = High Efficiency

Digit 3 — Airflow Configuration

D = Downflow
H = Horizontal

Digit 4, 5, 6 — Nominal Gross Cooling Capacity (MBh)

150 = 12½ Tons
180 = 15 Tons
210 = 17½ Tons, 60Hz DOE 2018
240 = 20 Tons
300 = 25 Tons, 60Hz DOE 2018

Digit 7 — Major Design Sequence

G = ASHRAE 90.1-2013 (Fan/Compressor Staging)[13] or Microchannel Type Evaporator and Condenser Coils

Digit 8 — Voltage Selection

3 = 208-230/60/3
4 = 460/60/3
W = 575/60/3
K = 380/60/3

Digit 9 — Unit Controls

R = Reliatel

Digit 10 — Heating Capacity

Note: *(Applicable to Digit 1 T models only)*

0 = No Heat
G = 18 kW Electric Heat
K = 27 kW Electric Heat
N = 36 kW Electric Heat
P = 54 kW Electric Heat
R = 72 kW Electric Heat

Note: *(Applicable to Digit 1 Y models only)*

H = Gas Heat - High
L = Gas Heat - Low
V = Gas Heat - SS Ht Ex - Modulating
X = Gas Heat - SS Ht Ex - Low
Z = Gas Heat - SS Ht Ex - High

Digit 11 — Minor Design Sequence

Digit 12, 13 — Service Sequence

00 = None
01 = 18mm Microchannel Condenser Coil

Note: *'01' only available on select models.*

Digit 14 — Fresh Air Selection

0 = No Fresh Air
D = Econ Dry Bulb w/ Barometric Relief[1]
F = Econ Reference Enthaply w/ Barometric Relief[1]
H = Econ Comparative Enthaply w/ Barometric Relief[1]
K = Low Leak Econ w/ Barometric Relief[1]
M = Low Leak Econ Reference Enthalpy w/ Barometric Relief[1]
P = Low Leak Econ Comparative Enthalpy w/ Barometric Relief[1]

Digit 15 — Supply Fan/Drive Type/Motor

0 = Standard Motor
1 = Oversized Motor[6]
3 = High Efficiency Motor[6]
6 = Single Zone Variable Air Volume Standard Motor
7 = Multi-Speed Standard Motor
8 = Single Zone Variable Air Volume Oversized Motor
9 = Multi-Speed Oversized Motor
A = Single Zone Variable Air Volume Standard Motor w/ Shaft Grounding Ring
B = Multi-Speed Standard Motor w/ Shaft Grounding Ring
C = Single Zone Variable Air Volume Oversized Motor w/ Shaft Grounding Ring
D = Multi-Speed Oversized Motor w/ Shaft Grounding Ring
E = VAV Supply Air Temperature Control - Standard Motor
F = VAV Supply Air Temperature Control - Oversized Motor
G = VAV Supply Air Temperature Control - Standard Motor w/ Shaft Grounding Ring
H = VAV Supply Air Temperature Control - Oversized Motor w/ Shaft Grounding Ring

Digit 16 — Hinged Service Access / Filters

0 = Standard Panels/Standard Filters[22]
A = Hinged Access/Standard Filters[22]
B = Standard Panels/MERV 8 Filters[6]
C = Hinged Access/MERV 8 Filters[6]
D = Standard Panels/MERV 13 Filters[6]
E = Hinged Access/MERV 13 Filters[6]

Digit 17 — Condenser Coil Protection

0 = Standard Coil
1 = Standard Coil With Hail Guard
4 = CompleteCoat™Condenser Coil
5 = CompleteCoat™Condenser Coil with Hail Guard

Digit 18 — Through The Base Provisions

Note: *Applicable to Digit 1, T or Y models.*

0 = No Through The Base Provisions
A = Through The Base Electric[12]

Note: *Applicable to Digit1, Y models only.*

B = Through The Base Gas
C = Through The Base Electric/Gas[12]
D = Through The Base Access

Digit 19 — Disconnect Switch/Circuit Breaker[11]

0 = No Disconnect/circuit break
1 = Unit Mounted Non-Fused Disconnect Switch
2 = Unit Mounted Circuit Breaker

Digit 20 — Convenience Outlet Option

0 = Without Convenience Outlet
A = Unpowered Convenience Outlet[5]
B = Powered Convenience Outlet[5]

Digit 21 — Communications Options

0 = Without Communications Options
1 = Trane Communications Interface[6, 15]
2 = Lontalk Communications Interface[6]
6 = Building Automation Control Network Communications Interface
7 = Air-Fi® Wireless Communications[24]

Digit 22 — Refrigeration System Option

0 = Standard refrigeration system
B = Dehumidification (Hot Gas Reheat)[4,13]

Digit 23 — Refrigeration Controls

0 = Without Refrigeration Controls
1 = Frostat[9, 18]

Digit 24 — Smoke Detector[2,10]

0 = Without Smoke Detector
A = Return Air Smoke Detector
B = Supply Air Smoke Detector
C = Return/Supply Air Smoke Detector
D = Plenum Smoke Detector[19]

Digit 25 — System Monitoring Controls

0 = No Monitoring Controls
1 = Clogged Filter Switch[9]
2 = Fan Failure Switch[9]
3 = Discharge Air Sensing[9]
4 = Clogged Filter Switch and Fan Failure switch[9]

5 = Clogged Filter Switch and Discharge Air Sensing[9]
6 = Fan Failure Switch and Discharge Air Sensing[9]
7 = Clogged Filter Switch, Fan Failure Switch and Discharge Air Sensing[9]
A = Condensate Drain Pan Overflow Switch
B = Clogged Filter Switch and Condensate Drain Pan Overflow Switch[9]
C = Fan Failure Switch and Condensate Drain Pan Overflow Switch[9]
D = Discharge Air Sensing and Condensate Drain Pan Overflow Switch[9]
E = Clogged Filter Switch, Fan Failure Switch and Condensate Drain Pan Overflow Switch[9]
F = Clogged Filter Switch, Discharge Air Sensing Tube and Condensate Drain Pan Overflow Switch[9]
G = Fan Failure Switch, Discharge Air Sensing Tube and Condensate Drain Pan Overflow Switch[9]
H = Clogged Filter Switch, Fan Failure Switch, Discharge Air Sensing and Condensate Drain Pan Overflow Switch[9]

Digit 26 - System Monitoring Controls

0 = No Monitoring Controls
A = Demand Control Ventilation (CO_2)[17]
B = FDD (Fault Detection and Diagnostics)
C = FDD (Fault Detection Diagnostics) and Demand Control Ventilation (CO_2)[17]

Digit 27 - Unit Hardware Enhancements

0 = No Enhancements
1 = Stainless Steel Drain Pan

Digit 28 - Short Circuit Current Rating

0 = Standard SCCR
A = 65kA SCCR Option[20, 21]

Digit 31 - Advanced Unit Controls

0 = Standard Unit Controls
1 = Human Interface[23]

Note: *Most Factory Installed Options available for Downflow Air Discharge units only. Please verify with ordering system for availability.*

Model Number Notes

1. Some field set up required.
2. Requires ReliaTel Options Module.
3. Requires Economizer.
4. All 22nd digit model numbers for reheat coil (B) require additional factory installed options: Frostat, and 2-inch pleated filters.
5. Must be ordered with Through-the-Base Electrical option or Horizontal-Side Access and either Unit Mounted Disconnect or Circuit Breaker.
6. Available factory installed on downflow AND horizontal units. Verify with ordering system.
7. Cannot be fused.
8. Must be factory installed when using Through-the-Base Options.
9. ReliaTel Options Module is required when ordering the following accessories: 4 Stage Cooling, Clogged Filter Switch, Fan Fail Switch, Condensate Overflow Switch, Discharge Air Sensing Kit, Frostat, Ventilation Override, Smoke Detector, Dehumidification and Modulating Gas Heat Furnace.
10. Option cannot be ordered in conjunction with field installed economizer on downflow units. Must be factory installed. The return air smoke detector may not fit up or work properly on the Voyager units when used in conjunction with 3rd party accessories (such as bolt on heat wheels, economizers, and power exhaust). Do not order the return air smoke detectors when using this type of accessory.
11. Unit mounted disconnect and circuit breakers are mutually exclusive of each other.
12. Through-the-base electrical option or Horizontal-Side Access must be ordered with either unit mounted disconnect or circuit breaker. When adding heat, you must order Trane Electric Heat.
13. Available on high efficiency units only.
14. All Factory Installed Options are Built-to-Order. Check order services for estimated production cycle.
15. TCI is for use with non-VariTrac systems and VariTrac systems.
16. For use with multi-speed and SZVAV units only.
17. Demand Control Ventilation Option includes wiring only. The CO_2 sensor is a field-installed only option.
18. Frostat is standard on VAV and high efficiency units.
19. Supply and/or return smoke detector may not be used with the plenum smoke detector.
20. Only available where MOP is above 60A.
21. 575 Vac option is 25kA.
22. Standard filters are not available with Low Leak Economizers.
23. Human Interface is standard with FDD (Fault Detection Diagnostics).
24. Must be used with BACnet® open protocol.

General Data

Table 3. General data—cooling 12½–15 tons standard efficiency

	12½ Tons Downflow and Horizontal Units		15 Tons Downflow and Horizontal Units	
	TS*150G3,4,W,K	**YS*150G3,4,W,K**	**TS*180G3,4,W,K**	**YS*180G3,4,W,K**
Cooling Performance[a]				
Gross Cooling Capacity	150,000	150,000	186,000	186,000
EER (Downflow/Horizontal)[b]	11	11	11	11
Nominal Airflow CFM / AHRI Rated CFM	5,000 / 4,000	5,000 / 4,000	6,000 / 5,400	6,000 / 5,400
AHRI Net Cooling Capacity	140,000	140,000	176,000	176,000
Integrated Energy Efficiency Ratio (IEER) (One Speed Fan / Multi or Variable Speed Fan)[c]	12.4/13.5	12.2/13.5	12.4/13.2	12.2/13.2
Percent Capacity @ part load (Stage 1/Stage 2)	66/100	66/100	67/100	67/100
System Power (kW)	12.73	12.73	16.00	16.00
Compressor				
Number/Type	2 / Scrolls	2 / Scrolls	2 / Scrolls	2 / Scrolls
Sound				
Outdoor Sound Rating (BELS)[d]	9.2	9.2	9.2	9.2
Outdoor Coil				
Type	Microchannel	Microchannel	Microchannel	Microchannel
Coil Width (in.)	0.71	0.71	0.71	0.71
Face Area (sq. ft.)	25.9	25.9	35.2	35.2
Rows/FPI (DF/HZ)	1/23	1/23	1/23	1/23
Indoor Coil				
Type	Microchannel	Microchannel	Microchannel	Microchannel
Coil Width (in.)	1.00	1.00	0.81	0.81
Face Area (sq. ft.)	17.30	17.30	23.00	23.00
Rows/FPI	2/16	2/16	2/16	2/16
Refrigerant Control	TXV	TXV	TXV	TXV
Drain Connection Number/Size (in.)	1/1.00 NPT	1/1.00 NPT	1/1.00 NPT	1/1.00 NPT
Outdoor Fan				
Type	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	2 / 26	2 / 26	2 / 26	2 / 26
Drive Type/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1
cfm	11,000	11,000	11,000	11,000
Number Motors/hp	2 / 0.50	2 / 0.50	2 / 0.50	2 / 0.50
Motor rpm	1,100	1,100	1,100	1,100
Indoor Fan				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1 / 15x15	1 / 15x15	1 / 18x18	1 / 18x18
Drive Type/No. Speeds	Belt / 1	Belt / 1	Belt / 1	Belt / 1
Number Motors	1	1	1	1
Motor hp (Standard/Oversized)[e]	3.0 / 5.0	3.0 / 5.0	3.0 / 5.0 or 7.5[f]	3.0 / 5.0 or 7.5[f]
Motor rpm (Standard/Oversized)	1,740 / 3,450	1,740 / 3,450	1,740 / 3,450	1,740 / 3,450
Motor Frame Size (Standard/Oversized)	56HZ / 56HZ	56HZ / 56HZ	184TZ / 56HZ/184TZ	56HZ / 56HZ/184TZ

Table 3. General data—cooling 12½–15 tons standard efficiency (continued)

	12½ Tons Downflow and Horizontal Units		15 Tons Downflow and Horizontal Units	
	TS*150G3,4,W,K	YS*150G3,4,W,K	TS*180G3,4,W,K	YS*180G3,4,W,K
Filters				
Type Furnished[g]	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended				
Downflow	(2)20x20x2 (4)20x25x2	(2)20x20x2 (4)20x25x2	(4)20x20x2 (4)20x25x2	(4)20x20x2 (4)20x25x2
Horizontal	(2)20x20x2 (4)20x25x2	(2)20x20x2 (4)20x25x2	(8)20x25x2	(8)20x25x2
Refrigerant Charge (Pounds of R-410A)[h]				
Cir#1 / Cir#2 (DF)	8.1/5.1	8.1/5.1	9.0/5.0	9.0/5.0
Cir#1 / Cir#2 (HZ)	8.1/5.2	8.1/5.2	9.2/5.1	9.2/5.1

(a) Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Certified in accordance with the Unitary Large Equipment Certification Program, which is based on AHRI Standard 340/360.
(b) EER is rated at AHRI conditions and in accordance with AHRI Standard 210/240 or 340/360.
(c) Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI standard 210/240 or 340/360.
(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270 or 370.
(e) For 380V/60Hz units, the oversized motor (Indoor Fan) is used as the standard motor. Refer to oversized motor data.
(f) Offered only as a field installed accessory.
(g) An optional 2-inch pleated filter is also available.
(h) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
* Indicates both downflow and horizontal units.

Table 4. General data—heating—12½–15 tons standard efficiency

	12½ Tons Downflow and Horizontal Units			15 Tons Downflow and Horizontal Units		
	Heating Performance[a] (Gas/Electric Only)					
Heating Models	**Low**	**High**	**Modulating Turn Down = 2.5:1**	**Low**	**High**	**Modulating Turn Down = 2.5:1**
Heating Input (Btu/h)	150,000	250,000	350,000	250,000	350,000	350,000
1st Stage (Btu)	100,000	175,000	140,000	175,000	250,000	140,000
Heating Output (Btu/h)	120,000	200,000	280,000	200,000	280,000	280,000
1st Stage (Btu)	80,000	140,000	112,000	140,000	200,000	112,000
Steady State Efficiency%	80	80	80	80	80	80
No. Burners	1	1	1	1	1	1
No. Stages	2	2	N/A	2	2	N/A
Gas Supply Line Pressure (in. wc)	2.5/14.0	2.5/14.0	2.5/14.0	2.5/14.0	2.5/14.0	2.5/14.0
Natural or LP (minimum/maximum)	Natural or LP	Natural or LP	Natural Only	Natural or LP	Natural or LP	Natural Only
Gas Connection Pipe Size (in.)	1/2	1/2	3/4	1/2	3/4	3/4

(a) Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.

Table 5. General data—17½–20 tons standard efficiency

	17½ Tons Downflow and Horizontal Units		20 Tons Downflow and Horizontal Units	
	TS*210G3,4,W,K	YS*210G3,4,W,K	TS*240G3,4,W,K	YS*240G3,4,W,K
Cooling Performance[a]				
Gross Cooling Capacity	210,000	210,000	259,000	259,000
EER (Downflow/Horizontal)[b]	11	11	10	10
Nominal Airflow CFM / AHRI Rated CFM	7,000 / 6,125	7,000 / 6,125	8,000 / 6,400	8,000 / 6,400
AHRI Net Cooling Capacity	196,000	196,000	240,000	240,000
Integrated Energy Efficiency Ratio (IEER) (One Speed Fan / Multi or Variable Speed Fan)[c]	12.4/13.2	12.2/13.2	11.6/12.4	11.4/12.4
Percent Capacity @ part load (Stage 1/Stage 2)	67/100	67/100	67/100	67/100
System Power (kW)	17.82	17.82	24.00	24.00
Compressor				
Number/Type	2 / Scrolls	2 / Scrolls	2 / Scrolls	2 / Scrolls
Sound				
Outdoor Sound Rating (BELS)[d]	9.4	9.4	9.4	9.4
Outdoor Coil				
Type	Microchannel	Microchannel	Microchannel	Microchannel
Coil Width (in.)	1.00	1.00	1.0	1.0
Face Area (sq. ft.)	35.2	35.2	35.2	35.2
Rows/FPI (DF/HZ)	1/20	1/20	1/23 / 1/20	1/23 / 1/20
Indoor Coil				
Type	Microchannel	Microchannel	Microchannel	Microchannel
Tube Size (in.) ID	1.00	1.00	1.00	1.00
Face Area (sq. ft.)	23.00	23.00	23.00	23.00
Rows/FPI	2 / 16	2 / 16	2 / 16	2 / 16
Refrigerant Control	TXV	TXV	TXV	TXV
Drain Connection Number/Size (in.)	1/1.00 NPT	1/1.00 NPT	1/1.00 NPT	1/1.00 NPT
Outdoor Fan				
Type	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	2 / 26	2 / 26	2 / 26	2 / 26
Drive Type/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1
cfm	14,500	14,500	15,500	15,500
Number Motors/hp	2 / 1.0	2 / 1.0	2 / 1.0	2 / 1.0
Motor rpm	1125	1125	1125	1125
Indoor Fan				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1 / 18x18	1 / 18x18	1 / 18x18	1 / 18x18
Drive Type/No. Speeds	Belt / 1	Belt / 1	Belt / 1	Belt / 1
Number Motors	1	1	1	1
Motor hp (Standard/Oversized)[e]	5.0 / 7.5	5.0 / 7.5	5.0 / 7.5	5.0 / 7.5
Motor rpm (Standard/Oversized)	3,450 / 3,470	3,450 / 3,470	3,450 / 3,470	3,450 / 3,470
Motor Frame Size (Standard/Oversized)	56HZ / 184T	56HZ / 184T	56HZ / 184T	56HZ / 184T

Table 5. General data—17½–20 tons standard efficiency (continued)

	17½ Tons Downflow and Horizontal Units		20 Tons Downflow and Horizontal Units	
	TS*210G3,4,W,K	YS*210G3,4,W,K	TS*240G3,4,W,K	YS*240G3,4,W,K
Filters				
Type Furnished[f]	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended				
Downflow	(4)20x20x2 (4)20x25x2	(4)20x20x2 (4)20x25x2	(4)20x20x2 (4)20x25x2	(4)20x20x2 (4)20x25x2
Horizontal	(8)20x25x2	(8)20x25x2	(8)20x25x2	(8)20x25x2
Refrigerant Charge (Pounds of R-410A)				
Cir#1/Cir#2 (DF)	12.6/6.8	12.6/6.8	12.4/7.2	12.4/7.2
Cir#1/Cir#2 (HZ)	12.0/6.8	12.0/6.8	11.7/6.8	11.7/6.8

(a) Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Certified in accordance with the Unitary Large Equipment Certification Program, which is based on AHRI Standard 340/360.
(b) EER is rated at AHRI conditions and in accordance with AHRI Standard 210/240 or 340/360.
(c) Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI standard 210/240 or 340/360.
(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270 or 370.
(e) For 380V/60Hz units, the oversized motor (Indoor Fan) is used as the standard motor. Refer to oversized motor data.
(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
* Indicates both downflow and horizontal units.

Table 6. General data—heating—17½–20 tons standard efficiency

	17½ Tons Downflow and Horizontal Units			20 Tons Downflow and Horizontal Units		
	Heating Performance[a] (Gas/Electric Only)					
Heating Models	**Low**	**High**	**Modulating Turn Down = 2.5:1**	**Low**	**High**	**Modulating Turn Down = 2.5:1**
Heating Input (Btu/h)	250,000	350,000	350,000	250,000	400,000	350,000
1st Stage (Btu)	175,000	250,000	140,000	175,000	300,000	140,000
Heating Output (Btu/h)	200,000	280,000	280,000	200,000	320,000	280,000
1st Stage (Btu)	140,000	200,000	112,000	140,000	240,000	112,000
Steady State Efficiency%	80	80	80	80	80	80
No. Burners	1	1	1	1	1	1
No. Stages	2	2	N/A	2	2	N/A
Gas Supply Line Pressure (in. wc)	2.5/14.0	2.5/14.0	2.5/14.0	2.5/14.0	2.5/14.0	2.5/14.0
Natural or LP (minimum/maximum)	Natural or LP	Natural or LP	Natural Only	Natural or LP	Natural or LP	Natural Only
Gas Connection Pipe Size (in.)	1/2	3/4	3/4	1/2	3/4	3/4

(a) Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.

Table 7. General data—25 tons standard efficiency

	25 Tons Downflow and Horizontal Units	
	TS*300G3,4,W,K	**YS*300G3,4,W,K**
Cooling Performance[a]		
Gross Cooling Capacity	285,300	285,300
EER (Downflow/Horizontal)[b]	10	10
Nominal Airflow CFM / AHRI Rated CFM	10,000 / 8,000	10,000 / 8,000
AHRI Net Cooling Capacity	266,000	266,000
Integrated Energy Efficiency Ratio (IEER) (One Speed Fan / Multi or Variable Speed Fan)[c]	11.6/12.4	11.4/12.4
Percent Capacity @ part load (Stage 1/Stage 2)	66/100	66/100
System Power (kW)	27	27
Compressor		
Number/Type	2 / Scrolls	2 / Scrolls
Sound		
Outdoor Sound Rating (BELS)[d]	9.4	9.4
Outdoor Coil		
Type	Microchannel	Microchannel
Coil Width (in.)	1.0	1.0
Face Area (sq. ft.)	35.2	35.2
Rows/FPI (DF/HZ)	1/23 / 1/20	1/23 / 1/20
Indoor Coil		
Type	Microchannel	Microchannel
Tube Size (in.) ID	1.00	1.00
Face Area (sq. ft.)	23.00	23.00
Rows/FPI	2 / 16	2 / 16
Refrigerant Control	TXV	TXV
Drain Connection Number/Size (in.)	1/1.00 NPT	1/1.00 NPT
Outdoor Fan		
Type	Propeller	Propeller
Number Used/Diameter (in.)	2 / 28	2 / 28
Drive Type/No. Speeds	Direct / 1	Direct / 1
cfm	16,100	16,100
Number Motors/hp	2 / 1.0	2 / 1.0
Motor rpm	1125	1125
Indoor Fan		
Type	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1 / 18x18	1 / 18x18
Drive Type/No. Speeds	Belt / 1	Belt / 1
Number Motors	1	1
Motor hp (Standard/Oversized)	7.5 / N/A	7.5 / N/A
Motor rpm (Standard/Oversized)	3,470 / N/A	3,470 / N/A
Motor Frame Size (Standard/Oversized)	184T / N/A	184T / N/A

Table 7. General data—25 tons standard efficiency (continued)

	25 Tons Downflow and Horizontal Units	
	TS*300G3,4,W,K	**YS*300G3,4,W,K**
Filters		
Type Furnished[e]	Throwaway	Throwaway
Number Size Recommended		
Downflow	(4)20x20x2 (4)20x25x2	(4)20x20x2 (4)20x25x2
Horizontal	(8)20x25x2	(8)20x25x2
Refrigerant Charge (Pounds of R-410A)[f]		
Cir#1/Cir#2 (DF)	12.5/6.7	12.5/6.7
Cir#1/Cir#2 (HZ)	11.7/6.7	11.7/6.7

(a) Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Certified in accordance with the Unitary Large Equipment Certification Program, which is based on AHRI Standard 340/360.
(b) EER is rated at AHRI conditions and in accordance with AHRI Standard 210/240 or 340/360.
(c) Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI standard 210/240 or 340/360.
(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270 or 370.
(e) An optional 2-inch pleated filter is also available.
(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
* Indicates both downflow and horizontal units.

Table 8. General data—heating—25 tons

	25 Tons Downflow and Horizontal Units		
	Heating Performance[a] (Gas/Electric Only)		
Heating Models	**Low**	**High**	**Modulating Turn Down = 2.5:1**
Heating Input (Btu/h)	250,000	400,000	350,000
1st Stage (Btu)	175,000	300,000	140,000
Heating Output (Btu/h)	200,000	320,000	280,000
1st Stage (Btu)	140,000	240,000	112,000
Steady State Efficiency%	80	80	80
No. Burners	1	1	1
No. Stages	2	2	N/A
Gas Supply Line Pressure (in. wc)	2.5 / 14.0	2.5 / 14.0	2.5 / 14.0
Natural or LP (minimum/maximum)	Natural or LP	Natural or LP	Natural Only
Gas Connection Pipe Size (in.)	½	¾	¾

(a) Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.

Table 9. General data—12½–15 tons high efficiency

	12½ Tons Downflow and Horizontal Units		15 Tons Downflow and Horizontal Units	
	TH*150G3,4,W	YH*150G3,4,W	TH*180G3,4,W	YH*180G3,4,W
Cooling Performance[a]				
Gross Cooling Capacity	152,400	152,400	180,500	180,500
EER[b]	12.1	12.1	12.1	12.1
Nominal CFM / AHRI Rated CFM	5,000 / 4,000	5,000 / 4,000	6,000 / 5,250	6,000 / 5,250
AHRI Net Cooling Capacity	144,000	144,000	174,000	174,000
Integrated Energy Efficiency Ratio (IEER) (One Speed Fan / Multi or Variable Speed Fan)[c]	13.5/15.0	13.5/15.0	14.0/15.0	14.0/15.0
Percent Capacity @ part load (Stage 1/Stage 2/Stage 3)[d]	30/70/100	30/70/100	32/68/100	32/68/100
System Power (kW)	11.90	11.90	14.38	14.38
Compressor				
Number/Type	2 / Scrolls	2 / Scrolls	2 / Scrolls	2 / Scrolls
Sound				
Outdoor Sound Rating (BELS)[e]	9.2	9.2	9.2	9.2
Outdoor Coil				
Type	Microchannel	Microchannel	Microchannel	Microchannel
Coil Width (in.)	1.0	1.0	1.0	1.0
Face Area (sq. ft.)	35.2	35.2	42.6	42.6
Rows/FPI	1 / 20	1 / 20	1 / 20	1 / 20
Indoor Coil				
Type	Hi-Performance	Hi-Performance	Hi-Performance	Hi-Performance
Tube Size (in.) ID	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	26.00	26.00	31.42	31.42
Rows/FPI	4 / 15	4 / 15	4 / 15	4 / 15
Refrigerant Control	TXV	TXV	TXV	TXV
Drain Connection Number/Size (in.)	1/1.00 NPT	1/1.00 NPT	1/1.00 NPT	1/1.00 NPT
Outdoor Fan				
Type	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	2 / 26	2 / 26	2 / 26	2 / 26
Drive Type/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1
cfm	11,400	11,400	11,700	11,700
Number Motors/hp	2 / 0.50	2 / 0.50	2 / 0.50	2 / 0.50
Motor rpm	1,100	1,100	1,100	1,100
Indoor Fan				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1 / 18x18	1 / 18x18	1 / 18x18	1 / 18x18
Drive Type/No. Speeds	Belt / 1	Belt / 1	Belt / 1	Belt / 1
Number Motors	1	1	1	1
Motor hp (Standard/Oversized)	3.0 / 5.0	3.0 / 5.0	3.0 / 5.0	3.0 / 5.0
Motor rpm (Standard/Oversized)	1,740 / 3,450	1,740 / 3,450	1,740 / 3,450	1,740 / 3,450
Motor Frame Size (Standard/Oversized)	145T / 145T	145T / 145T	145T / 145T	145T / 145T

Table 9. General data—12½–15 tons high efficiency (continued)

	12½ Tons Downflow and Horizontal Units		15 Tons Downflow and Horizontal Units	
	TH*150G3,4,W	YH*150G3,4,W	TH*180G3,4,W	YH*180G3,4,W
Filters				
Type Furnished(f)	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended				
Downflow	(4)20x20x2 (4)20x25x2	(4)20x20x2 (4)20x25x2	(8)20x20x2 (4)20x16x2	(8)20x20x2 (4)20x16x2
Horizontal	(8)20x25x2	(8)20x25x2	(12)20x20x2	(12)20x20x2
Refrigerant Charge (Pounds of R-410A) (g)				
Downflow and Horizontal (Cir#1/Cir#2)	12.5/7.1	12.5/7.1	13.0/8.5	13.0/8.5
Optional Hot Gas Reheat Coil (Cir#1/Cir#2)	9.2 / 6.9	9.2 / 6.9	10.9 / 8.9	10.9 / 8.9

(a) Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Certified in accordance with the Unitary Large Equipment Certification Program, which is based on AHRI Standard 340/360.
(b) EER is rated at AHRI conditions and in accordance with AHRI Standard 210/240 or 340/360.
(c) Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI standard 210/240 or 340/360.
(d) 3 stages not available with Reheat models.
(e) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270 or 370.
(f) An optional 2 inch pleated filter is also available.
(g) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
* Indicates both downflow and horizontal units.

Table 10. General data—heating—12½-15 tons high efficiency

	12½ Tons Downflow and Horizontal Units			15 Tons Downflow and Horizontal Units		
	Heating Performance(a) (Gas/Electric Only)					
Heating Models	**Low**	**High**	**Modulating Turn Down = 2.5:1**	**Low**	**High**	**Modulating Turn Down = 2.5:1**
Heating Input (Btu/h)	150,000	250,000	350,000	250,000	350,000	350,000
1st Stage (Btu)	100,000	175,000	140,000	175,000	250,000	140,000
Heating Output (Btu/h)	120,000	200,000	280,000	200,000	280,000	280,000
1st Stage (Btu)	80,000	140,000	112,000	140,000	200,000	112,000
Steady State Efficiency%	80	80	80	80	80	80
No. Burners	1	1	1	1	1	1
No. Stages	2	2	N/A	2	2	N/A
Gas Supply Line Pressure (in. wc)	2.5 / 14.0	2.5 / 14.0	2.5 / 14.0	2.5 / 14.0	2.5 / 14.0	2.5 / 14.0
Natural or LP (minimum/maximum)			Natural Only			Natural Only
Gas Connection Pipe Size (in.)	½	½	¾	½	¾	¾

(a) Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.

Table 11. General data—17½–20 tons high efficiency

	17½ Tons Downflow and Horizontal Units		20 Tons Downflow and Horizontal Units	
	TH*210G3,4,W	**YH*210G3,4,W**	**TH*240G3,4,W**	**YH*240G3,4,W**
Cooling Performance[a]				
Gross Cooling Capacity	214,800	214,800	248,500	248,500
EER[b]	11.8	11.8	11.0	11.0
Nominal CFM / AHRI Rated CFM	7,000 / 5,600	7,000 / 5,600	8,000 / 6,400	8,000 / 6,400
AHRI Net Cooling Capacity	204,000	204,000	234,000	234,000
Integrated Energy Efficiency Ratio (IEER) (One Speed Fan / Multi or Variable Speed Fan)[c]	13.0/14.0	13.0/14.0	12.4/14.0	12.4/14.0
Percent Capacity @ part load (Stage 1/Stage 2/Stage 3)[d]	31/69/100	31/69/100	30/70/100	30/70/100
System Power (kW)	17.29	17.29	21.27	21.27
Compressor				
Number/Type	2 / Scrolls	2 / Scrolls	2 / Scrolls	2 / Scrolls
Sound				
Outdoor Sound Rating (BELS)[e]	9.2	9.2	9.4	9.4
Outdoor Coil				
Type	Microchannel	Microchannel	Microchannel	Microchannel
Coil Width (in.)	1.0	1.0	1.0	1.0
Face Area (sq. ft.)	42.6	42.6	42.6	42.6
Rows/FPI	1 / 20	1 / 20	1 / 20	1 / 20
Indoor Coil				
Type	Hi-Performance	Hi-Performance	Hi-Performance	Hi-Performance
Tube Size (in.) ID	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	31.42	31.42	31.42	31.42
Rows/FPI	4 / 15	4 / 15	4 / 15	4 / 15
Refrigerant Control	TXV	TXV	TXV	TXV
Drain Connection Number/Size (in.)	1/1.00 NPT	1/1.00 NPT	1/1.00 NPT	1/1.00 NPT
Outdoor Fan				
Type	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	2 / 26	2 / 26	2 / 28	2 / 28
Drive Type/No. Speeds	Direct / 1	Direct / 1	Direct / 1	Direct / 1
cfm	15,800	15,800	16,500	16,500
Number Motors/hp	2 / 1.0	2 / 1.0	2 / 1.0	2 / 1.0
Motor rpm	1,125	1,125	1,125	1,125
Indoor Fan				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1 / 18x18	1 / 18x18	1 / 18x18	1 / 18x18
Drive Type/No. Speeds	Belt / 1	Belt / 1	Belt / 1	Belt / 1
Number Motors	1	1	1	1
Motor hp (Standard/Oversized)	5.0 / 7.5	5.0 / 7.5	5.0 / 7.5	5.0 / 7.5
Motor rpm (Standard/Oversized)	3,450 / 3,470	3,450 / 3,470	3,450 / 3,470	3,450 / 3,470
Motor Frame Size (Standard/Oversized)	145T / 184T	145T / 184T	145T / 184T	145T / 184T

Table 11. General data—17½–20 tons high efficiency (continued)

	17½ Tons Downflow and Horizontal Units		20 Tons Downflow and Horizontal Units	
	TH*210G3,4,W	YH*210G3,4,W	TH*240G3,4,W	YH*240G3,4,W
Filters				
Type Furnished[f]	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended				
Downflow	(8)20x20x2 (4)20x16x2	(8)20x20x2 (4)20x16x2	(8)20x20x2 (4)20x16x2	(8)20x20x2 (4)20x16x2
Horizontal	(12)20x20x2	(12)20x20x2	(12)20x20x2	(12)20x20x2
Refrigerant Charge (Pounds of R-410A)[g]				
Downflow and Horizontal (Cir#1/Cir#2)	14.0 / 7.3	14.0 / 7.3	15.5 / 7.5	15.5 / 7.5
Optional Hot Gas Reheat Coil (Cir#1/Cir#2)	12.2/8.9	12.2/8.9	11.9 / 9.6	11.9 / 9.6

(a) Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Certified in accordance with the Unitary Large Equipment Certification Program, which is based on AHRI Standard 340/360.
(b) EER is rated at AHRI conditions and in accordance with AHRI Standard 210/240 or 340/360.
(c) Integrated Energy Efficiency Ratio (IEER) is rated in accordance with AHRI standard 210/240 or 340/360.
(d) 3 stages not available with Reheat models.
(e) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270 or 370.
(f) An optional 2 inch pleated filter is also available.
(g) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
* Indicates both downflow and horizontal units.

Table 12. General data—heating—17½–20 tons high efficiency

	17½ Tons Downflow and Horizontal Units			20 Tons Downflow and Horizontal Units		
	Heating Performance[a] (Gas/Electric Only)					
Heating Models	**Low**	**High**	**Modulating Turn Down = 2.5:1**	**Low**	**High**	**Modulating Turn Down = 2.5:1**
Heating Input (Btu/h)	250,000	350,000	350,000	250,000	400,000	350,000
1st Stage (Btu)	175,000	250,000	140,000	175,000	300,000	140,000
Heating Output (Btu/h)	200,000	280,000	280,000	200,000	320,000	280,000
1st Stage (Btu)	140,000	200,000	112,000	140,000	240,000	112,000
Steady State Efficiency %	80	80	80	80	80	80
No. Burners	1	1	1	1	1	1
No. Stages	2	2	N/A	2	2	N/A
Gas Supply Line Pressure (in. wc)	2.5 / 14.0	2.5 / 14.0	2.5/14.0	2.5 / 14.0	2.5 / 14.0	2.5/14.0
Natural or LP (minimum/maximum)			Natural Only			Natural Only
Gas Connection Pipe Size (in.)	½	¾	¾	½	¾	¾

(a) Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.

Table 13. General data—25 tons high efficiency

	25 Tons Downflow and Horizontal Units	
	TH*300G3,4,W	**YH*300G3,4,W**
Cooling Performance[a]		
Gross Cooling Capacity	292,300	292,300
EER[b]	10.6	10.6
Nominal CFM / AHRI Rated CFM	10,000 / 8,000	10,000 / 8,000
AHRI Net Cooling Capacity	274,000	274,000
Integrated Energy Efficiency Ratio (IEER) (One Speed Fan / Multi or Variable Speed Fan)[c]	12.4/15.0	12.4/15.0
Percent Capacity @ part load (Stage 1/Stage 2/Stage 3/Stage 4)[d]	25/50/75/100	25/50/75/100
System Power (kW)	25.85	25.85
Compressor		
Number[e]/Type	3 / Scrolls	3 / Scrolls
Sound		
Outdoor Sound Rating (BELS)[f]	9.4	9.4
Outdoor Coil		
Type	Microchannel	Microchannel
Coil Width (in.)	1.0	1.0
Face Area (sq. ft.)	42.58	42.58
Rows/FPI	1 / 20	1 / 20
Indoor Coil		
Type	Hi-Performance	Hi-Performance
Tube Size (in.) ID	0.3125	0.3125
Face Area (sq. ft.)	31.42	31.42
Rows/FPI	4 / 15	4 / 15
Refrigerant Control	TXV	TXV
Drain Connection Number/Size (in.)	1/1.00 NPT	1/1.00 NPT
Outdoor Fan		
Type	Propeller	Propeller
Number Used/Diameter (in.)	2 / 28	2 / 28
Drive Type/No. Speeds	Direct / 1	Direct / 1
cfm	16,500	16,500
Number Motors/hp	2 / 1.0	2 / 1.0
Motor rpm	1,125	1,125
Indoor Fan		
Type	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)	1 / 18x18	1 / 18x18
Drive Type/No. Speeds	Belt / 1	Belt / 1
Number Motors	1	1
Motor hp (Standard)	7.5	7.5
Motor rpm (Standard)	3,470	3,470
Motor Frame Size (Standard)	184T	184T

TRAFFIC IMPACT ANALYSIS

WEST FOOTHILL DEVELOPMENT PROJECT

CITY OF UPLAND

SAN BERNARDINO COUNTY, CALIFORNIA

This Traffic Impact Analysis has been prepared under the supervision of
Ambarish Mukherjee, P.E.

LSA

February 2023

TRAFFIC IMPACT ANALYSIS

WEST FOOTHILL DEVELOPMENT PROJECT

CITY OF UPLAND

SAN BERNARDINO COUNTY, CALIFORNIA

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February 2023

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1.0 EXECUTIVE SUMMARY

The proposed West Foothill Development Project (Project) in the City of Upland (City) will include two warehouse buildings with a combined area of 101,092 square feet (sf) and a 3,570 sf fast-food restaurant with a drive-through window. This study evaluates the proposed warehouse buildings with a combined 101,092 square feet (sf) of space, while the latest site plan (dated February 9, 2023) and submitted to the City indicate the proposed warehouse space totals approximately 94,435 sf. For purposes of this analysis, the study utilized the higher sf than what is currently being proposed as a conservative estimate.

The project is located at 1760 W Foothill Boulevard, between Central Avenue and Benson Avenue in the City of Upland. The project parcel is considered as Commercial/Industrial Mixed-Use (C/I-MU) according to the City's General Plan. The project is anticipated to be completed by Year 2024.

The project can be accessed via two full-access driveways:

- Project Driveway 1 on Foothill Boulevard; and
- Project Driveway 2 on Foothill Boulevard.

The project is forecast to generate 104 net passenger car equivalent (PCE) trips in the a.m. peak hour, 79 net PCE trips in the p.m. peak hour, and 1,050 net PCE daily trips.

The study area for the project was finalized based on the criteria defined in the City of Upland *Traffic Impact Analysis (TIA) Guidelines* (dated July 2020). Based on the City's TIA Guidelines and discussions with City staff during the scoping agreement process, the study area includes five intersections and two roadway segments.

Traffic conditions were examined for the weekday daily, a.m., and p.m. peak hour conditions under the following scenarios:

- Existing Condition
- Opening Year without Project Conditions
- Opening Year plus Project Conditions
- Horizon Year without Project Conditions
- Horizon Year plus Project Conditions

1.1 EXISTING CONDITIONS SUMMARY

Based on the criteria as discussed in Section 3.2, Level of Service Procedures and Criteria, of this report, the following intersection is currently operating at a deficient LOS under existing conditions:

5. Benson Avenue/Foothill Boulevard (p.m. peak hour only).

All other study intersections and roadway segments are currently operating at a satisfactory LOS.

1.2 OPENING YEAR (2024) CONDITIONS SUMMARY

Based on the criteria as discussed in Section 3.2, Level of Service Procedures and Criteria, of this report, under both opening year without and plus project conditions, the following intersection is forecast to operate at a deficient LOS:

5. Benson Avenue/Foothill Boulevard (pm. peak hour only).

All other intersections and roadway segments are forecast to operate at a satisfactory LOS under both opening year without and plus project conditions.

With the implementation of improvements recommended in Chapter 11, the intersection of Benson Avenue/Foothill Boulevard is forecast to operate at a satisfactory LOS under opening year plus project conditions.

Table 1-A summarizes the recommended improvements for study intersections and funding mechanism under opening year conditions.

1.3 HORIZON YEAR (2045) CONDITIONS SUMMARY

Based on the criteria as discussed in the "Level of Service Procedures and Criteria" section of this report, the following intersection is forecast to operate at a deficient LOS:

2. Benson Avenue/Foothill Boulevard (both a.m. and p.m. peak hours).

All other intersections and roadway segments are forecast to operate at a satisfactory LOS under both horizon year without and plus project conditions.

With the implementation of improvements recommended in Chapter 11, the intersection of Benson Avenue/Foothill Boulevard is forecast to operate at a satisfactory LOS under horizon year plus project conditions.

Table 1-A summarizes the recommended improvements for study intersections and funding mechanism under cumulative conditions.

1.4 CALIFORNIA ENVIRONMENTAL QUALITY ACT ASSESSMENT – VEHICLE MILES TRAVELED ANALYSIS AND ACTIVE TRANSPORTATION AND PUBLIC TRANSIT ANALYSIS SUMMARY

1.4.1 Vehicle Miles Traveled Analysis Summary

A Vehicle Miles Traveled (VMT) analysis was prepared to meet California Environmental Quality Act (CEQA) requirements. The project VMT analysis is prepared consistent with the City's TIA Guidelines. The City's TIA Guidelines do not recommend any VMT analysis methodology for mixed-use projects. However, as per the Governor's Office of Planning and Research (OPR) *Technical Advisory*, dated December 2018, each component of the mixed-use project may be evaluated separately. As per the City's TIA Guidelines, restaurants less than 50,000 sf can be considered as local-serving and therefore may be screened from a full VMT analysis. Additionally, as per the City's TIA guidelines, warehouses with areas up to less than 143,000 sf may also be screened from a VMT analysis.

Therefore, both the restaurant and warehousing components of the project are presumed to have less than significant VMT impact and can be screened from a full VMT analysis.

1.4.2 Active Transportation and Public Transit Analysis Summary

The project does not conflict with any existing or proposed bicycle, pedestrian, or public transit facilities. Therefore, it can be considered to conform to all adopted policies, plans, or programs concerning these facilities and will not have a significant impact.

It should be noted that at present, there are no proposed service changes in Omnitrans' transit network. Omnitrans bus route 66 serves the study area with stops along Central Avenue and Foothill Boulevard near the project site. This route provides connections along Foothill Boulevard and connects the Montclair Transit Center and the Fontana Metrolink Transit Center. There is an existing bus stop located on the westbound direction of Foothill Boulevard approximately 880 feet east of the project site and another stop located on the eastbound direction of Foothill Boulevard approximately 1,050 feet west of the project site.

1.5 LIST OF CHAPTER 1.0 TABLES

- Table 1-A: Recommended Improvements for Intersections and Funding Mechanism

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Table 1-A - Recommended Improvements for Intersections and Funding Mechanism

Intersection	Opening Year (2025) Plus Project Improvements	Horizon Year (2045) Plus Project Improvements	Funding Mechanism	Improvements Covered by Nexus Study	Improvements Covered by Fair Share
5 . Benson Avenue/Foothill Boulevard	Optimize cycle length (p.m. peak hour only)	Optimize cycle length (a.m. and p.m. peak hour)	Fair Share	-	Optimize cycle length.

2.0 INTRODUCTION

The Traffic Impact Analysis (TIA) has been prepared for the proposed West Foothill Development Project (project) to be located at 1760 W Foothill Boulevard, between Central Avenue and Benson Avenue, in the City of Upland (City). The project site is bound by Foothill Boulevard to the north and Upland Sports Arena to the south. Figure 2-1 illustrates the regional and project location. (Figures and tables are located at the end of each chapter.)

This report is intended to satisfy the requirements established by the City of Upland *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment* (dated July 2020). The scope of work for this TIA, including trip generation, trip distribution, study area, and analysis methodologies, has been approved by City staff via the Scoping Agreement process. A copy of the Scoping Agreement is included in Appendix A.

This study examines traffic operations in the vicinity of the proposed project under the following five scenarios:

- Existing Conditions;
- Project Opening Year without Project Conditions;
- Project Opening Year plus Project Conditions;
- Horizon Year without Project Conditions; and
- Horizon Year plus Project Conditions.

Traffic conditions were examined for the weekday daily, a.m., and p.m. peak hour conditions. The a.m. peak hour is defined as the one hour of highest traffic volumes occurring between 7:00 and 9:00 a.m. The p.m. peak hour is the one hour of highest traffic volumes occurring between 4:00 and 6:00 p.m. Roadway segments were analyzed using daily volume counts and comparisons were made to the daily service volume standards provided in the City's TIA Guidelines.

2.1 PROJECT DESCRIPTION

The proposed project will include two warehouse buildings with a combined area of 101,092 square feet (sf) and a 3,570 sf fast-food restaurant with a drive-through window. The project parcel is considered as Commercial/Industrial Mixed-Use (C/I-MU) according to the City's General Plan. The project is anticipated to be completed by Year 2024. Figure 2-2 illustrates the conceptual site plan for the proposed project.

As shown in Figure 2-2, the project can be accessed via two full-access driveways:

- Project Driveway 1 on Foothill Boulevard; and
- Project Driveway 2 on Foothill Boulevard.

Project Driveway 1 is an existing driveway located on the west side of the project site. Project Driveway 2 will be a newly constructed driveway located on the east side of the project site.

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- Figure 2-1: Regional and Project Location
- Figure 2-2: Conceptual Site Plan

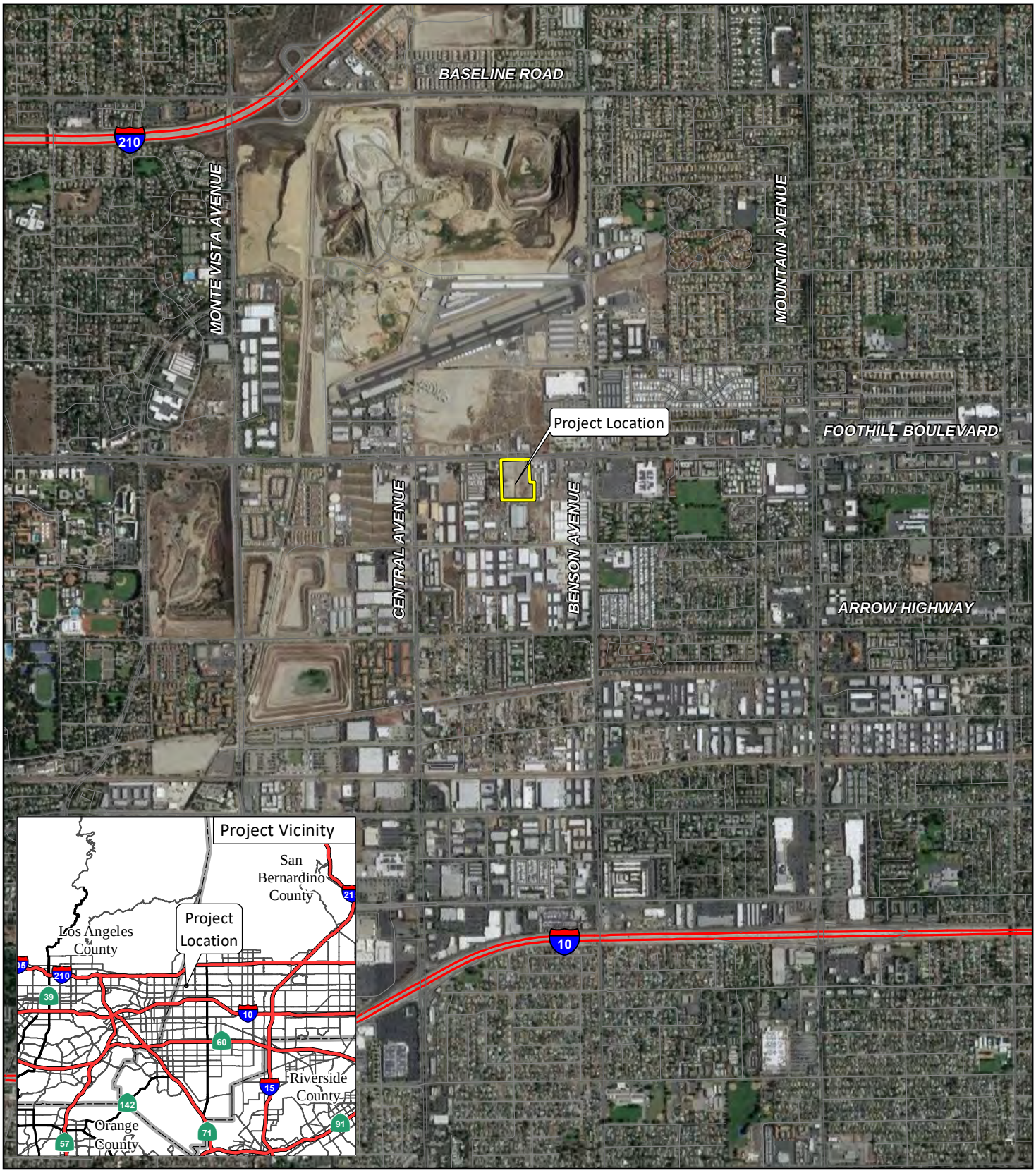

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FIGURE 2-1

N

0 1000 2000

FEET

SOURCE: ESRI Streetmap, 2021; Google Earth, 2021

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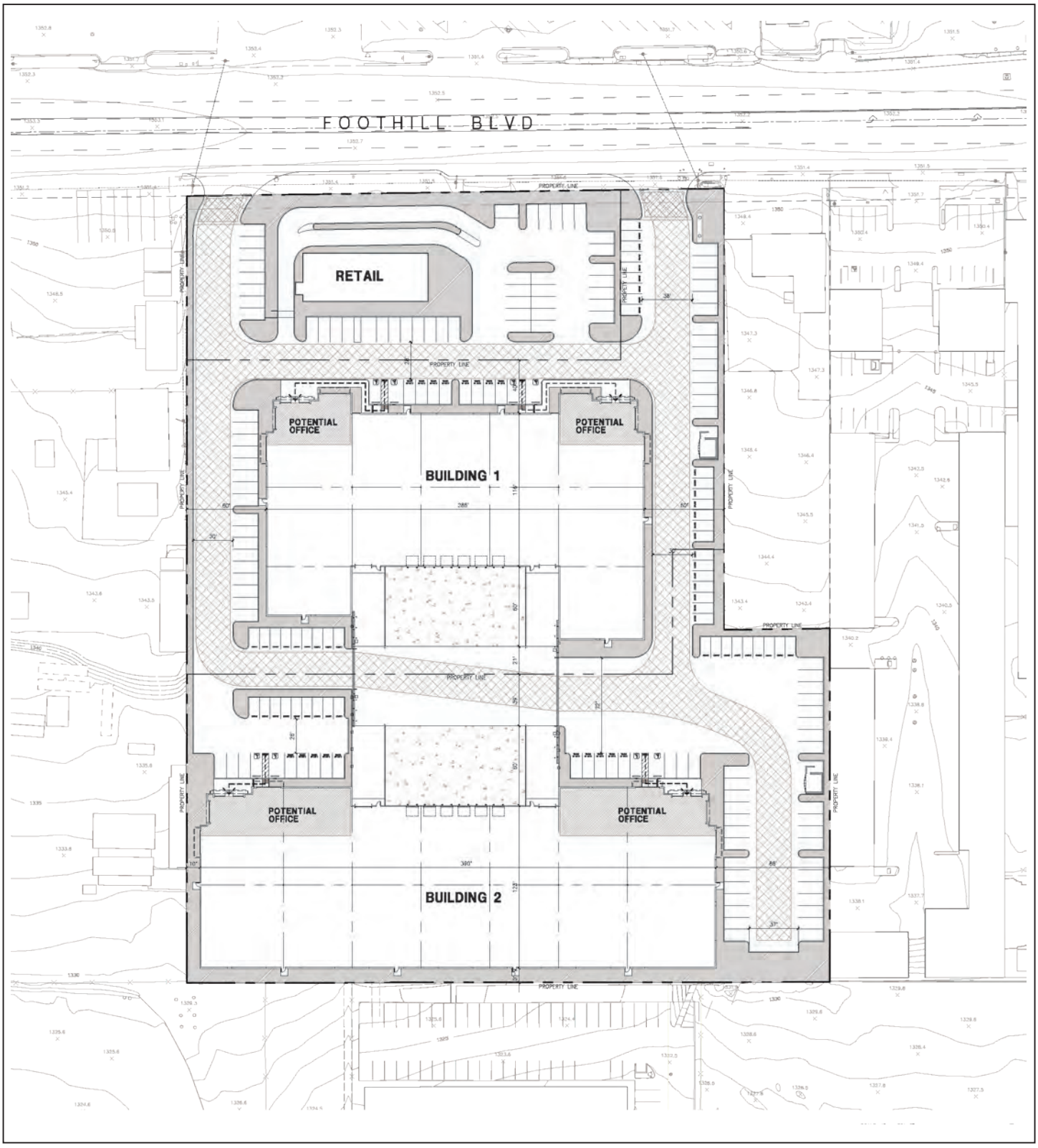
West Foothill Development Project
Traffic Impact Analysis

Regional and Project Location



LSA

FIGURE 2-2

N

0 50 100

FEET

West Foothill Development Project
Traffic Impact Analysis

Conceptual Site Plan

Date: HPA Architecture, February 2023

P:\MVP2201 1650 Foothill CEQA + Tech\02 Technical Studies\2.3 Transportation\GIS\Report\fig2-2_SitePlan (02/13/2023)

3.0 ANALYSIS METHODOLOGY AND CRITERIA

3.1 LEVEL OF SERVICE DEFINITIONS

LOS can be characterized for the whole intersection, by each intersection approach, and by each lane group. Control delay alone is used to characterize LOS for the entire intersection. Control delay quantifies the increase in travel time due to the traffic signal control, and is a surrogate measure of driver discomfort and fuel consumption.

A complete description of the meaning of LOS can be found in the Transportation Research Board Special Report 209, *Highway Capacity Manual* (HCM). The HCM establishes LOS A through F for intersections. A description of LOS for signalized and unsignalized intersections is summarized in Table 3-A. A description of LOS for roadway segments is summarized in Table 3-B.

Table 3-C shows the LOS criteria for unsignalized and signalized intersections. Table 3-D summarizes the LOS criteria used to evaluate roadway segments based on the daily capacity for each functional classification pursuant to the City's TIA Guidelines. The daily traffic volumes represent the total vehicles (both directions) traveling on a roadway segment within 24 hours.

For all study area intersections, the *Highway Capacity Manual 6th Edition* (HCM 6) analysis methodologies were used to determine intersection LOS. Intersection LOS was calculated using the Synchro 11 software, which uses the HCM 6 methodologies.

3.2 LEVEL OF SERVICE PROCEDURES AND CRITERIA

Study intersections and roadway segments analyzed in this report are under the jurisdiction of the City of Upland. The City uses LOS D as its minimum level of service criterion for all intersections and roadway segments.

Table 3-A: Intersection Level of Service Definitions

LOS	Description
A	Traffic operations with a control delay of 10 seconds per vehicle or less and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is exceptionally favorable or the cycle length is very short. If LOS A is the result of favorable progression, most vehicles arrive during the green indication and travel through the intersection without stopping.
B	Traffic operations with control delay between 10 seconds per vehicle and 20 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is low and either progression is highly favorable or the cycle length is short. More vehicles stop than with LOS A.
C	Traffic operations with control delay between 20 and 35 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when progression is favorable or the cycle length is moderate. Individual cycle failures (i.e., one or more queued vehicles are not able to depart as a result of the insufficient capacity during the cycle) may begin to appear at this level. The number of vehicles stopping is significant, although many vehicles still pass through the intersection without stopping.
D	Traffic operations with control delay between 35 and 55 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is high and either progression is ineffective or the cycle length is long. Many vehicles stop and individual cycle failures are noticeable.
E	Traffic operations with control delay between 55 and 80 seconds per vehicle and a volume-to-capacity ratio no greater than 1.0. This level is typically assigned when volume-to-capacity ratio is high, progression is unfavorable, and the cycle length is long. Individual cycle failures are frequent.
F	Traffic operations with control delay exceeding 80 seconds per vehicle or a volume-to-capacity ratio greater than 1.0. This level is typically assigned when the volume-to-capacity ratio is very high, progression is very poor, and the cycle length is long. Most cycles fail to clear the queue.

Source: Highway Capacity Manual (6th Edition)

Table 3-B: Roadway Segment Level of Service Definitions

LOS	Description
A	Describes primarily free-flow operation. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Control Delay at the boundary intersection is minimal. The travel speed exceeds 80% of the base free-flow speed, and the volume-to-capacity ratio is no greater than 1.0.
B	Describes reasonably unimpeded operation. The ability to maneuver within the traffic stream is only slightly restricted, and control delay at the boundary is not significant. The travel speed is between 67% and 80% of the base free-flow speed, and the volume-to-capacity ratio is no greater than 1.0.
C	Describes stable operation. The ability to maneuver and change lanes at mid-segment locations may be more restricted than at LOS B. Longer queues at the boundary intersection may contribute to lower travel speeds. The travel speed is between 50% and 67% of the base free-flow speed, and the volume-to-capacity ratio is no greater than 1.0.
D	Indicates a less stable condition in which small increases in flow may cause substantial increases in delay and decreases in travel speed. This operation may be due to adverse signal progression, high volume, or inappropriate signal timing at the boundary intersections. The travel speed is between 40% and 50% of the base free-flow speed, and the volume-to-capacity ratio is no greater than 1.0.
E	Characterized by unstable operation and significant delay. Such operations may be due to some combination of adverse progression, high volume, and inappropriate signal timing at the boundary intersections. The travel speed is between 30% and 40% of the base free-flow speed, and the volume-to-capacity ratio is no greater than 1.0.
F	Characterized by flow at extremely low speed. Congestion is likely occurring at the boundary intersections, as indicated by high delay and extensive queuing. The travel speed is between 30% or less of the base free-flow speed, and the volume-to-capacity ratio is greater than 1.0.

Source: *Highway Capacity Manual* (6th Edition)

Table 3-C: Level of Service Criteria for Unsignalized and Signalized Intersections

Level of Service	Unsignalized Intersection Average Delay per Vehicle (sec.)	Signalized Intersection Average Delay per Vehicle (sec.)
A	≤ 10	≤ 10
B	> 10 and ≤ 15	> 10 and ≤ 20
C	> 15 and ≤ 25	> 20 and ≤ 35
D	> 25 and ≤ 35	> 35 and ≤ 55
E	> 35 and ≤ 50	> 55 and ≤ 80
F	> 50	> 80

Source: *Highway Capacity Manual* (6th Edition)

Table 3-D: Roadway Segment Capacity and Levels of Service

Classification	Typical Lane Configuration	Daily Volume Thresholds				
		LOS A	LOS B	LOS C	LOS D	LOS E
Collector	2 Lanes Undivided	900	2,000	6,800	14,100	17,400
Secondary	4 Lanes Undivided			17,500	27,400	28,900
Secondary	4 Lanes Divided			19,200	35,400	37,400
Major	6 Lanes Divided			27,000	53,200	56,000

Source: City of Upland *General Plan 2035 Circulation Plan*, September 2015.

3.3 LIST OF CHAPTER 3.0 TABLES

- Table 3-A: Intersection Level of Service Definitions
- Table 3-B: Roadway Segment Level of Service Definitions
- Table 3-C: Level of Service Criteria for Unsignalized and Signalized Intersections
- Table 3-D: Roadway Segment Capacity and Levels of Service

4.0 EXISTING CONDITIONS

4.1 STUDY AREA

Foothill Boulevard is a part of the roadway system included in the San Bernardino County Transportation Authority (SBTCA) *Congestion Management Program (CMP)*, dated June 2016. Based on the City's TIA Guidelines, at a minimum, the study area must include all freeway links with 100 or more two-way peak-hour project trips and other CMP roadways with 50 or more two-way peak-hour project trips within five miles of the project site. The project is not anticipated to add 100 or more two-way peak hour trips to any freeway segment. Therefore, no freeway links were analyzed as part of this analysis. Intersections along Foothill Boulevard where the project is anticipated to add 50 or more peak hour trips have been included as part of this analysis. All analysis intersections and roadway segments were approved by the City as part of the scoping process.

4.1.1 Study Intersections

Per the Scoping Agreement (Appendix A), intersections analyzed in this study are as follows:

1. Central Avenue/Foothill Boulevard (Upland);
2. Central Avenue/11th Street (Upland);
3. Project Driveway 1/ Foothill Boulevard (Upland);
4. Project Driveway 2/Foothill Boulevard (Upland); and
5. Benson Avenue/Foothill Boulevard (Upland).

Figure 4-1 illustrates the locations of all study intersections.

4.1.2 Roadway Segments

Per the Scoping Agreement (Appendix A), roadway segments analyzed in this study are as follows:

1. Foothill Boulevard, between Central Avenue and Project Driveway 1 (Upland); and
2. Foothill Boulevard, between Project Driveway 2 and Benson Avenue (Upland).

4.2 EXISTING ROADWAY NETWORK

This section provides a description of the circulation network within the study area. Within the City of Upland, all major roadways are classified based on the Existing Roadway System and Classifications provided in the Circulation Element of the City of Upland *General Plan 2035* (General Plan). Following is a brief description of major roadways within the study area:

- **Central Avenue**: Within the study area, Central Avenue is designated as a Major Arterial in the City's General Plan. Between Foothill Boulevard and 11th Street, Central Avenue is a four-lane divided Arterial with a two-way left turn painted median and a posted speed limit of 40 miles per hour. There are no bike facilities along either direction of this segment. There is no provision for on-street parking on either side of this segment.

- **Foothill Boulevard**: Within the study area, Foothill Boulevard is designated as a Major Arterial in the City's General Plan. Between Central Avenue and Lowe's Driveway, Foothill Boulevard is a four-lane divided Arterial with a two-way left turn painted median and a posted speed limit of 45 miles per hour. There are no bike facilities nor provision for on-street parking along either direction of this segment. Between Lowe's Driveway and Benson Avenue, Foothill Boulevard is a four-lane divided Arterial with a raised median. There is a bike lane along the north side of this segment but none along the south side of this segment. There is no provision for on-street parking on either side of this segment.

- **11th Street**: Within the study area, 11th Street is a local street and has no designation in the City's General Plan. Between Dewey Way and Berry Court, 11th Street is a two-lane, undivided road. There are no bike facilities along either direction of this segment. There is provision for on-street parking for all vehicles excluding commercial vehicles with gross weights of 5 tons or over along either side of this segment.

- **Benson Avenue**: Within the study area, Benson Avenue is designated as a Secondary Arterial in the City's General Plan. Between 13th Street and 11th Street, Benson Avenue is four-lane divided Arterial with a two-way left turn painted median and a posted speed limit of 40 miles per hour. There are bike lanes north of Foothill Boulevard along both directions of this segment but none south of Foothill Boulevard. There is a no provision for on-street parking on either side of this segment.

Figure 4-2 illustrates existing plus project study intersection geometrics and traffic control. Figure 4-3 illustrates the Master Plan of Roadways for the City. Table 4-A summarizes the classifications and number of mid-block arterial lanes for the roadway segments analyzed in the TIA.

4.3 BICYCLE, PEDESTRIAN, TRANSIT, AND TRUCK FACILITIES

4.3.1 Bicycle Facilities

The City of Upland promotes bicycling for recreation and mobility. Bicycling can be a viable alternative to local work commutes and offers children a healthy way to get to school. To facilitate and encourage bicycle trips, the City has adopted a Bicycle and Pedestrian Master Plan that includes a network of proposed facilities and capital improvement projects.

According to the City of Upland General Plan, the bikeway network within the City is classified into three categories: Class I – Off-Street Bike Paths and Class II/III – On-Street Bike Lanes. Class I bike routes are physically separated by automobile traffic and may be used by both bicyclists and pedestrians. Class II bike routes are marked routes delineated by signs and striped bicycle lanes. Class III bike routes are similar to Class II bike routes, with the exception that the bicycle lanes are not striped along the facility and are typically delineated with signage.

As part of the City's Bikeway Network, Class II bike routes have been added to both directions of Benson Avenue north of Foothill Boulevard and to the westbound direction of Foothill Boulevard between Lowe's driveway and Benson Avenue within the study area. Proposed future Class II bike routes have been planned to be added along the eastbound and westbound directions of Foothill Boulevard within the study area. Proposed future Class III bike routes have been planned to be added along the northbound and southbound directions of Benson Avenue south of Foothill

Boulevard within the study area. Figure 4-4 illustrates the existing and proposed bikeways within the City of Upland.

4.3.2 Pedestrian Facilities

The implementation of enhanced pedestrian linkage with a comprehensive trails system links residential areas, schools, parks, and commercial centers so that residents can travel within the community without driving. Safe and attractive sidewalks and walkways improve the walkability of the City. Citywide, sidewalks are generally provided on both sides of the streets. Additionally, standard paved trails and non-standard unpaved trails are frequently used by bicyclists and pedestrians in the City. Some trails are also available for equestrian riders. The existence of trails and sidewalks provides accessible facilities, provides safety features, and improves walkability in the City of Upland. According to the City's General Plan, there is a proposed Priority II or III Trail planned to be placed along Benson Avenue just east of the project site. Although there are no current trails within the study area, paved sidewalks are provided on both sides of Central Avenue, Foothill Boulevard east of Lowe's driveway, 11th Street, and Benson Avenue. Figure 4-5 illustrates the network of existing and proposed trails within the City.

4.3.3 Transit Facilities

Omnitrans is the Public Transit Agency for San Bernardino County and is responsible for coordinating transit services throughout the approximately 480-square-mile service area. Omnitrans provides both local and regional services throughout the region with 30 fixed routes and five OmniGo routes using 178 vehicles. Omnitrans bus Route 66 operates within the study area. Route 66 has stops on Central Avenue and Foothill Boulevard within the study area. This bus route travels west and eastbound, and connects the Montclair Transit Center on the west end and the Fontana Metrolink Transit Center on the east end.

4.3.4 Truck Facilities

According to the City of Upland General Plan, the City has a specific City Ordinance (Ordinance No. 1540) which defines weight restrictions, specifies the ability of trucks to enter areas not designated as truck routes, and defines the truck routes within the city. Truck routes are defined by weight restrictions and classified as "Unrestricted Access," "Restricted to 18 Tons," and "Restricted to 5 Tons." Figure 4-6 illustrates the network of truck routes within the City.

4.4 EXISTING TRAFFIC VOLUMES

Existing traffic volumes are based on counts collected by Counts Unlimited on November 2022. Daily traffic counts were collected for roadway segments, while a.m. and p.m. peak hour turning movement counts were collected at study intersections. Detailed count sheets are included in Appendix B.

Vehicle classification counts were conducted at all study intersections. At these locations, counts were converted to Passenger Car Equivalent (PCE) volumes. The concept of PCEs accounts for the larger impact of trucks on traffic operations. It does so by assigning each type of truck a PCE factor that represents the number of passenger vehicles that could travel through an intersection in the same time that a particular type of truck could. PCE volumes at study intersections were computed

using a factor of 1.5 for 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for trucks with four or more axles consistent with SBCTA CMP TIA guidelines.

4.5 EXISTING LEVELS OF SERVICE

4.5.1 Study Intersections

An intersection LOS analysis was conducted for existing conditions using the methodologies previously discussed. For all signalized intersections, existing signal timing sheets were obtained from City staff and the corresponding signal timings were included in the Synchro files. These timings were used for all the analysis scenarios. The signal timing sheets are included in Appendix B. Table 4-C summarizes the results of this analysis and shows that the following intersection is currently operating at a deficient LOS under existing conditions:

5. Benson Avenue/Foothill Boulevard (p.m. peak hour only).

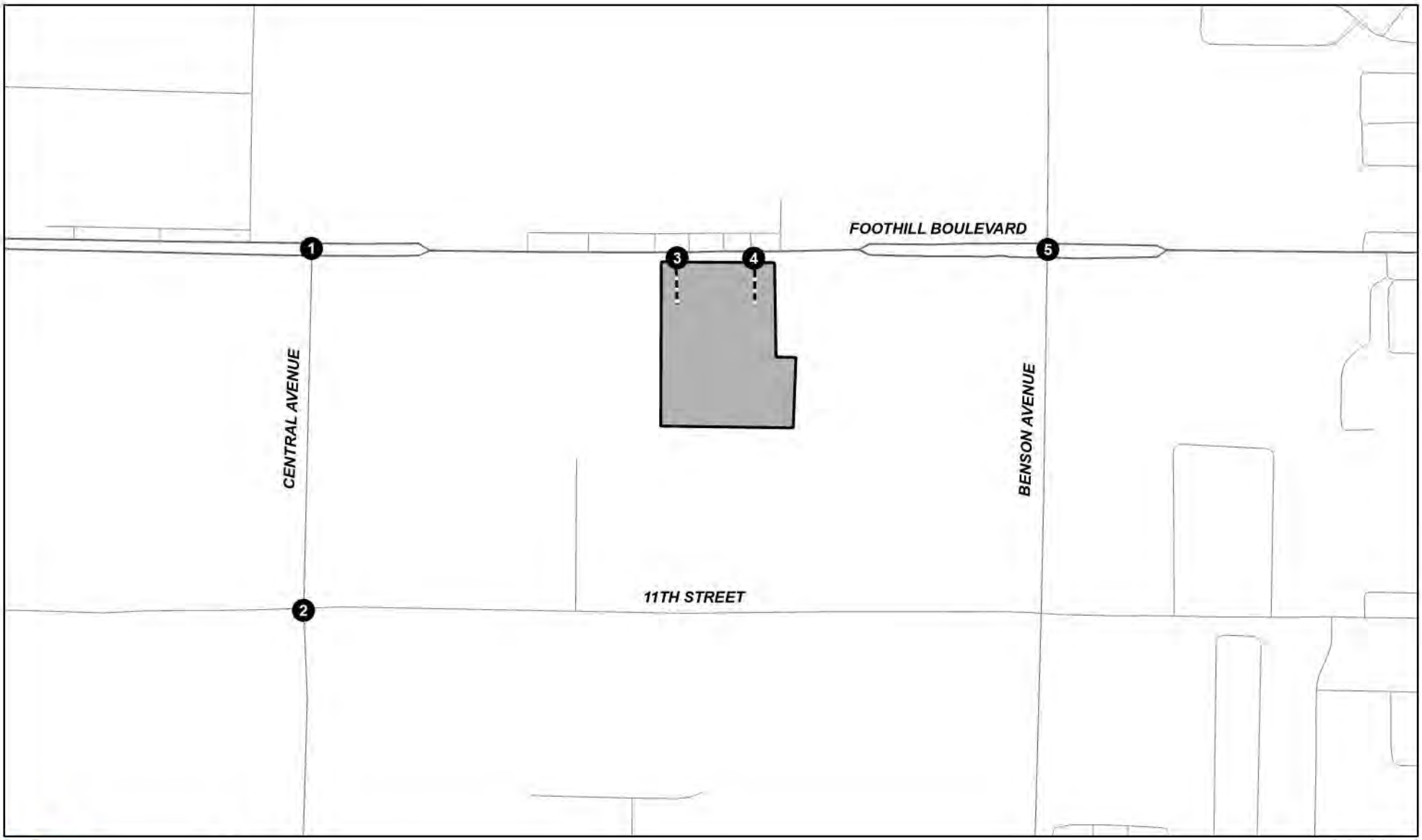
All other intersections are forecast to operate at a satisfactory LOS. Detailed LOS worksheets are included in Appendix D.

4.5.2 Roadway Segments

A roadway segment LOS analysis was conducted for existing conditions using the methodologies previously discussed. Table 4-D summarizes the results of this analysis and shows that all roadway segments currently operate at a satisfactory LOS.

4.6 LIST OF CHAPTER 4.0 FIGURES AND TABLES

- Figure 4-1: Study Area Intersections
- Figure 4-2: Existing Plus Project Study Intersection Geometrics and Traffic Control
- Figure 4-3: City of Upland Roadway Classification
- Figure 4-4: City of Upland Bicycle Routes
- Figure 4-5: City of Upland Network of Existing and Proposed Trails
- Figure 4-6: City of Upland Truck Routes
- Figure 4-7: Existing Peak Hour Traffic Volumes
- Table 4-A: City of Upland General Plan Roadway Segment Classification
- Table 4-B: Existing Roadway Segment Daily Traffic Volumes
- Table 4-C: Existing Intersection Levels of Service
- Table 4-D: Existing Roadway Segment Levels of Service



LSA

FIGURE 4-1

Points
- Study Intersections
- Project Location
- Project Driveway

0 250 500
FEET

SOURCE: ESRI Streetmap, 2021

West Foothill Development Project
Traffic Impact Analysis
Study Area Intersections

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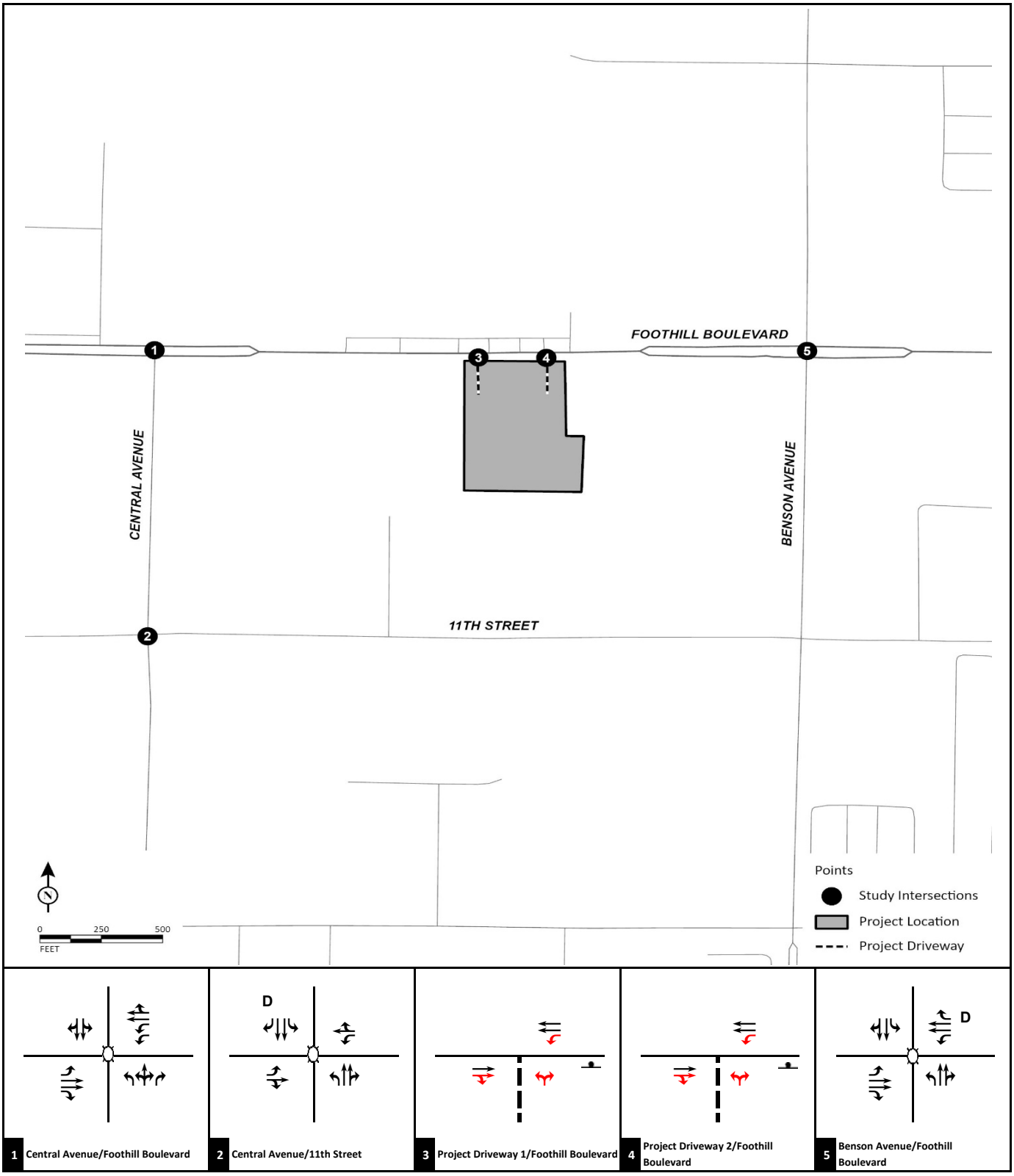

FIGURE 4-2

LSA

Legend

Signal
Stop Sign
D De-Facto Right Turn
Project Features
Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Existing with Project Study Intersection Geometrics and Traffic Control

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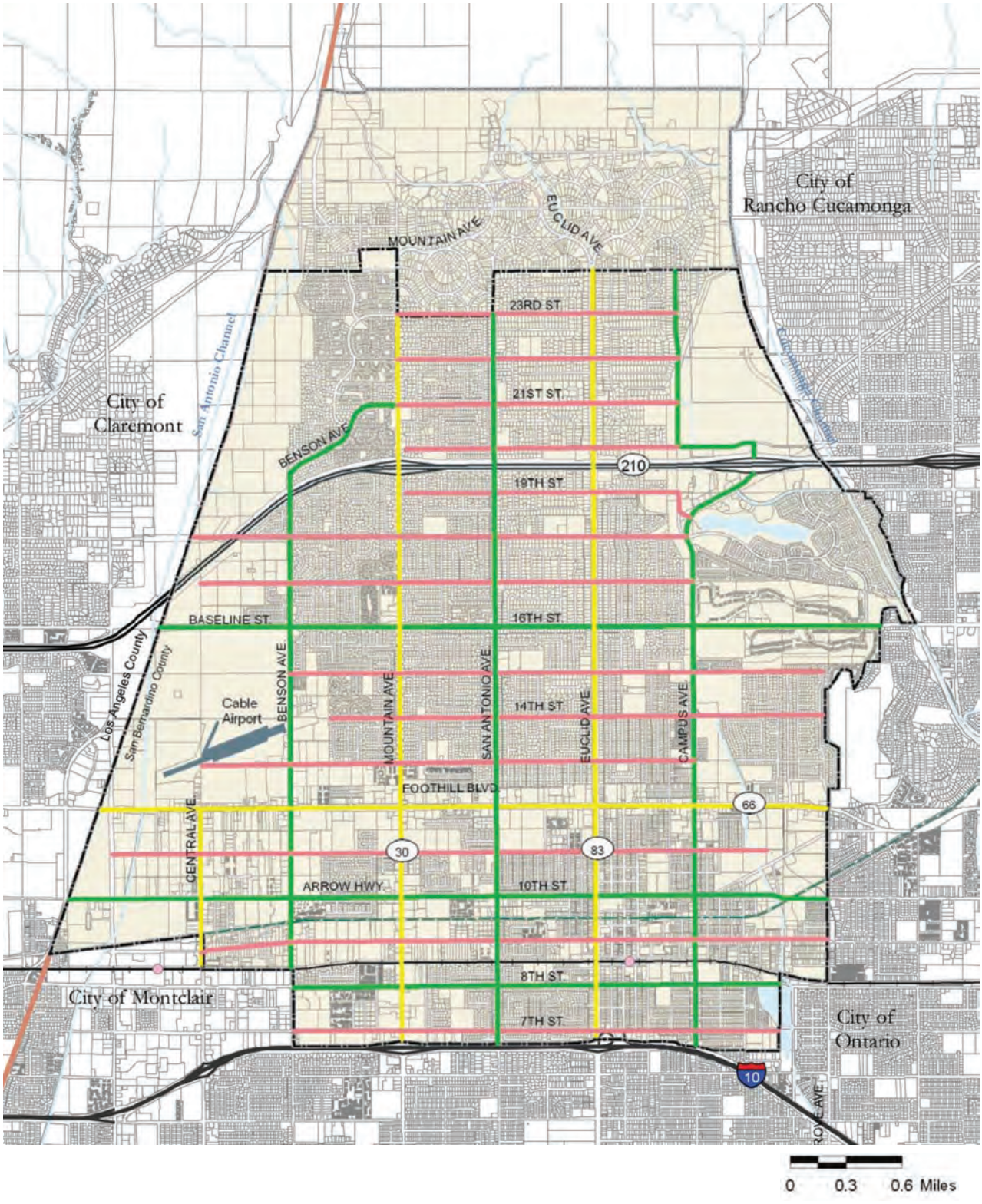

LSA

LEGEND

- Major Arterials
- Secondary Arterials
- Collector Streets
- Sphere of Influence
- City Limits
- County Boundary
- Water Features
- Rail Line
- Southern Pacific Trail
- Metrolink Station

FIGURE 4-3

West Foothill Development Project
Traffic Impact Analysis

City of Upland Roadway Classification

SOURCE: City of Upland General Plan 2035

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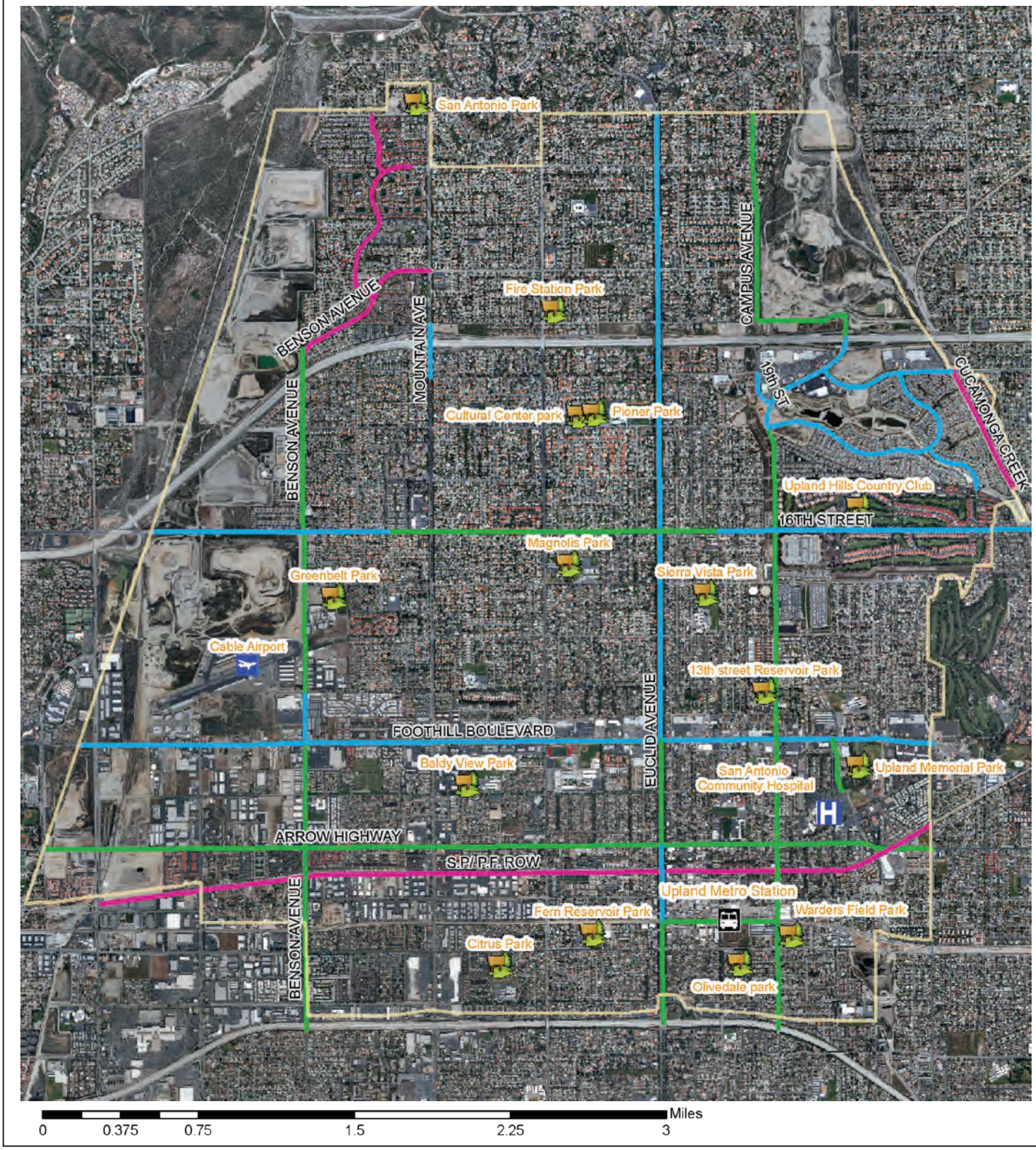

LSA

LEGEND

City boundary

BIKE ROUTES

Class I Bicycle Route

Class II Bicycle Route

Class III Bicycle Route

N

FIGURE 4-4

West Foothill Development Project
Traffic Impact Analysis

City of Upland Existing Bicycle Routes

SOURCE: City of Upland General Plan 2035

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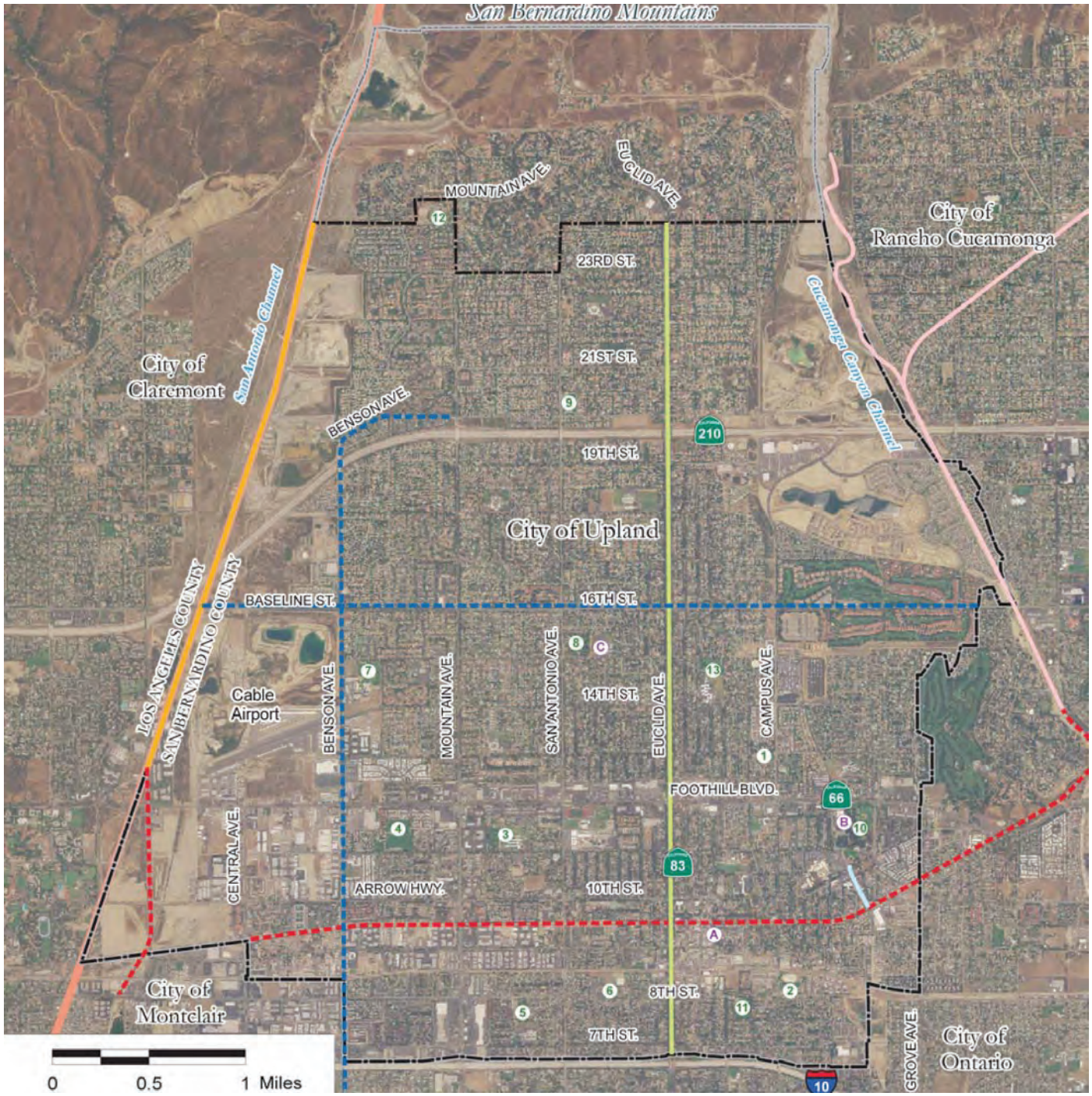

LSA

LEGEND

Existing Trails
- Cucamonga Trail
- Euclid Trail
- Memorial Park Connector Trail
- San Antonio Wash Trail

Proposed Priority Trails
- Priority Class I
- Priority Class II or III

N

FIGURE 4-5

West Foothill Development Project
Traffic Impact Analysis

City of Upland Network of Existing and Proposed Trails

SOURCE: City of Upland General Plan 2035

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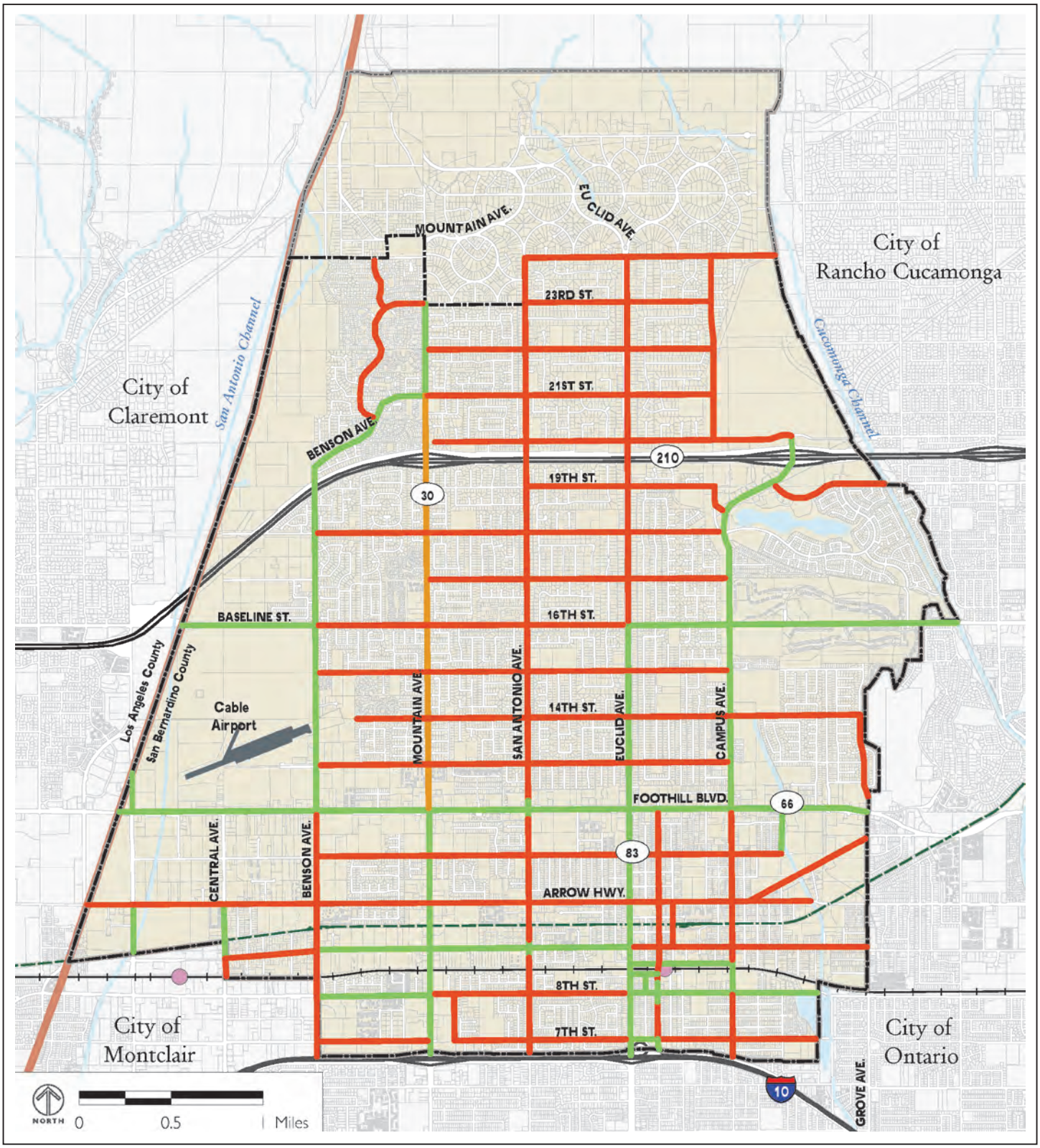

LSA

LEGEND

- County Boundary
- Sphere of influence
- City Limits
- Upland Parcel
- Southern Pacific Trail
- Rail Line
- Metrolink Station

Truck Routes

- Unrestricted Access
- Restricted to 18 Tons
- Restricted to 5 Tons

FIGURE 4-6

West Foothill Development Project
Traffic Impact Analysis

City of Upland Truck Routes

SOURCE: City of Upland General Plan 2035

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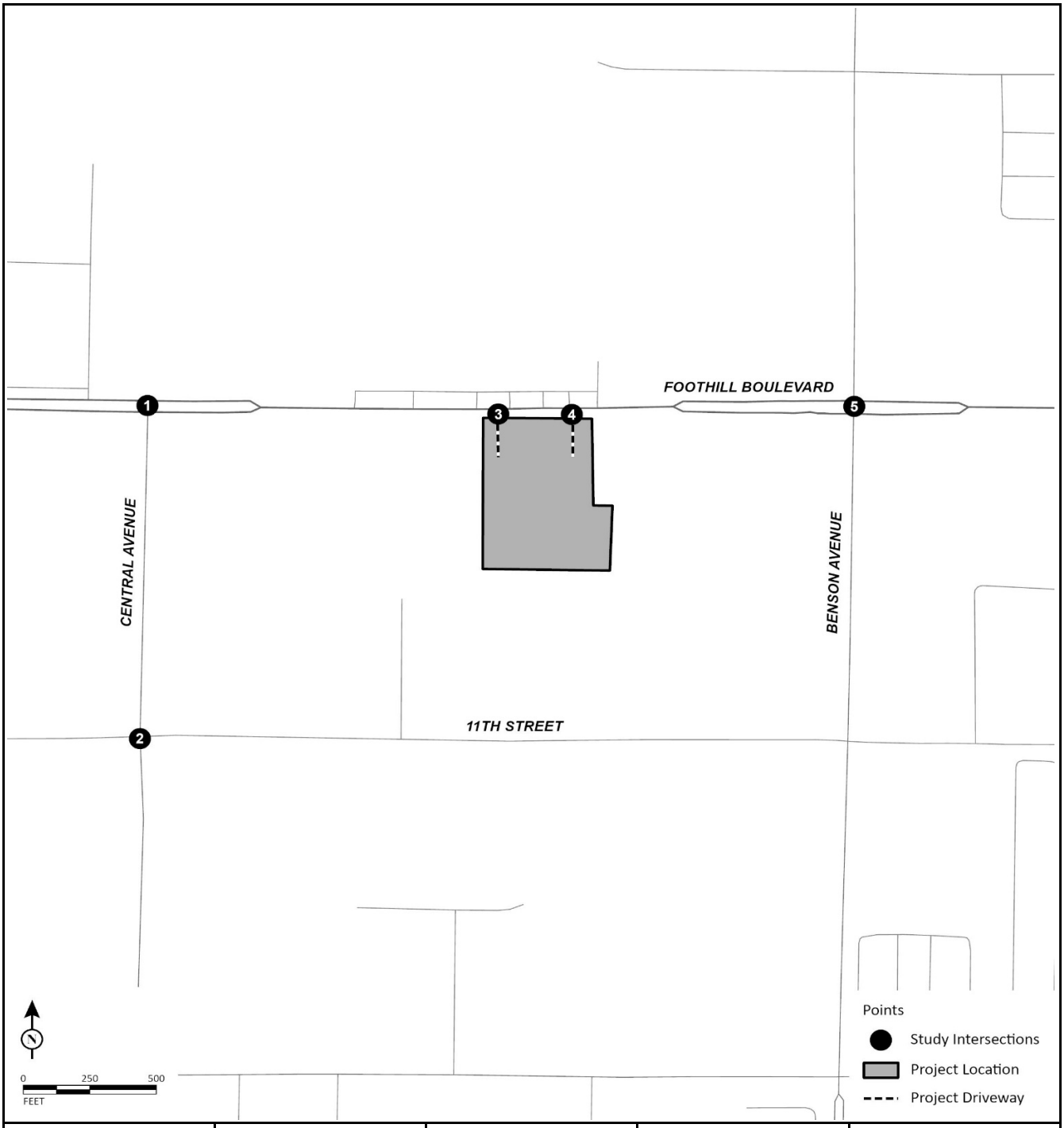


1 Central Avenue/Foothill Boulevard	2 Central Avenue/11th Street	3 Project Driveway 1/Foothill Boulevard	4 Project Driveway 2/Foothill Boulevard	5 Benson Avenue/Foothill Boulevard
0 / 5 ⤷ ← 737 / 560 451 / 1036 → ↶ 177 / 208 119 / 139 ⤵ 165 / 118 197 / 363 0 / 1	29 / 19 ⤶ 16 / 44 ⤷ 238 / 329 ↓ 46 / 77 → 23 / 28 ⤷ 25 / 41 ⤵ ↱ 13 / 50 ← 71 / 71 ↶ 63 / 87 37 / 28 ⤵ 350 / 441 ↑ 94 / 85	*Future Intersection*	*Future Intersection*	205 / 151 ⤶ 107 / 286 ⤷ 476 / 407 ↓ 403 / 984 → 122 / 145 ⤷ 57 / 107 ⤵ ↱ 146 / 119 ← 602 / 583 ↶ 114 / 119 67 / 85 ⤵ 243 / 428 ↑ 77 / 134

LSA

FIGURE 4-7

XXX / YYY
AM / PM Peak Hour PCE Traffic Volumes

West Foothill Development Project
Traffic Impact Analysis

Existing Peak Hour Traffic Volumes

LSA

Table 4-A - Roadway Segment Classification

Roadway	#	Segment	Existing Condition Number of Lanes	Jurisdiction	Functional Classification[1]
Foothill Boulevard	**1**	Between Central Avenue and Project Driveway 1	4	City of Upland	Major Arterial
	2	Between Project Driveway 2 and Benson Avenue	4	City of Upland	Major Arterial

Notes:

[1]Classifications for all segments have been obtained from the City of Uplande General Plan 2035 Circulation Plan.

LSA

Table 4-B - Existing Roadway Segment Daily Traffic Volumes

Roadway	#	Segment	Existing ADT
Foothill Boulevard	**1**	Between Central Avenue and Project Driveway 1	24,991
	2	Between Project Driveway 2 and Benson Avenue	24,230

LSA

Table 4-C - Existing Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project				
			Control	A.M. Peak Hour Delay (sec.)	A.M. Peak Hour LOS	P.M. Peak Hour Delay (sec.)	P.M. Peak Hour LOS
1 . Central Avenue/Foothill Boulevard	City of Upland	D	Signal	34.1	C	28.2	C
2 . Central Avenue/11th Street	City of Upland	D	Signal	39.5	D	35.7	D
3 . Project Driveway 1/Foothill Boulevard	City of Upland	D	-	*Does Not Exist*		*Does Not Exist*	
4 . Project Driveway 2/Foothill Boulevard	City of Upland	D	-	*Does Not Exist*		*Does Not Exist*	
5 . Benson Avenue/Foothill Boulevard	City of Upland	D	Signal	51.7	D	55.0	**E** *

Notes:

OWSC = One-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 4-D - Existing Roadway Segment Levels of Service

Roadway Segment	Jurisdiction	General Plan Roadway Classification[1]	Existing Number of Lanes	Without Project			
				Roadway Capacity[2]	Daily Volume	V/C Ratio	LOS
Segments on Foothill Boulevard							
1 . Between Central Avenue and Project Driveway 1	City of Upland	Major Arterial	4	56,000	24,991	0.45	C
2 . Between Project Driveway 2 and Benson Avenue	City of Upland	Major Arterial	4	56,000	24,230	0.43	C

Notes:

LOS = Level of Service

* Exceeds LOS Standard

[1] Roadway classification has been obtained from the City of Upland General Plan 2035 Circulation Plan.

[2] Roadway capacitiy has been obtained from the City of Upland General Plan 2035 Circulation Plan.

[3] Operational deficiency determined based on the criteria included in the City of Upland Traffic Impact Analysis Guidelines (dated July 2020).

5.0 PROJECT TRAFFIC

5.1 PROJECT TRIP GENERATION

The trip generation for the proposed project was developed using rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition) for Land Use 150 – "Warehousing" and Land User 934 – "Fast-Food Restaurant with Drive-Through Window".

Warehouse trips were converted to passenger vehicles and trucks based on South Coast Air Quality Management District (SCAQMD) recommendations. As such, 31 percent of the warehouse trips will be trucks, including 6.8% 2-axle trucks, 5.5% 3-axle trucks, and 18.7% 4 or more axle trucks. Finally, as per the City's TIA Guidelines, all truck trips were concerted to passenger car equivalent (PCE) trips using PCE factors of 1.5 for 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for 4 or more axle trucks.

For the fast-food restaurant, 50% of a.m. peak hour trips and 55% of p.m. peak hour trips will be considered as pass-by trips. A pass-by trip is a trip where an intermediate stop is made on the way from the origin to the primary destination of the trip without making a route diversion. It is not actually a "new" trip added to the surrounding circulation system. Pass-by rates for this land use were obtained from the ITE *Trip Generation Manual* (11th Edition). Pass-by trips were subtracted from the total trips for the fast-food restaurant to obtain the total net trips.

The total PCE trips for the warehouse were added to the net trips for the fast-food restaurant to obtain the total net PCE trip generation for the project. As a conservative approach, no internal capture or trip credits from existing uses were considered. The project trip generation is summarized in Table 5-A. As shown in Table 5-A, the project is anticipated to generate 1,050 total net daily PCE trips, with 104 net PCE trips occurring during the a.m. peak hour, and 79 net PCE trips occurring during the p.m. peak hour.

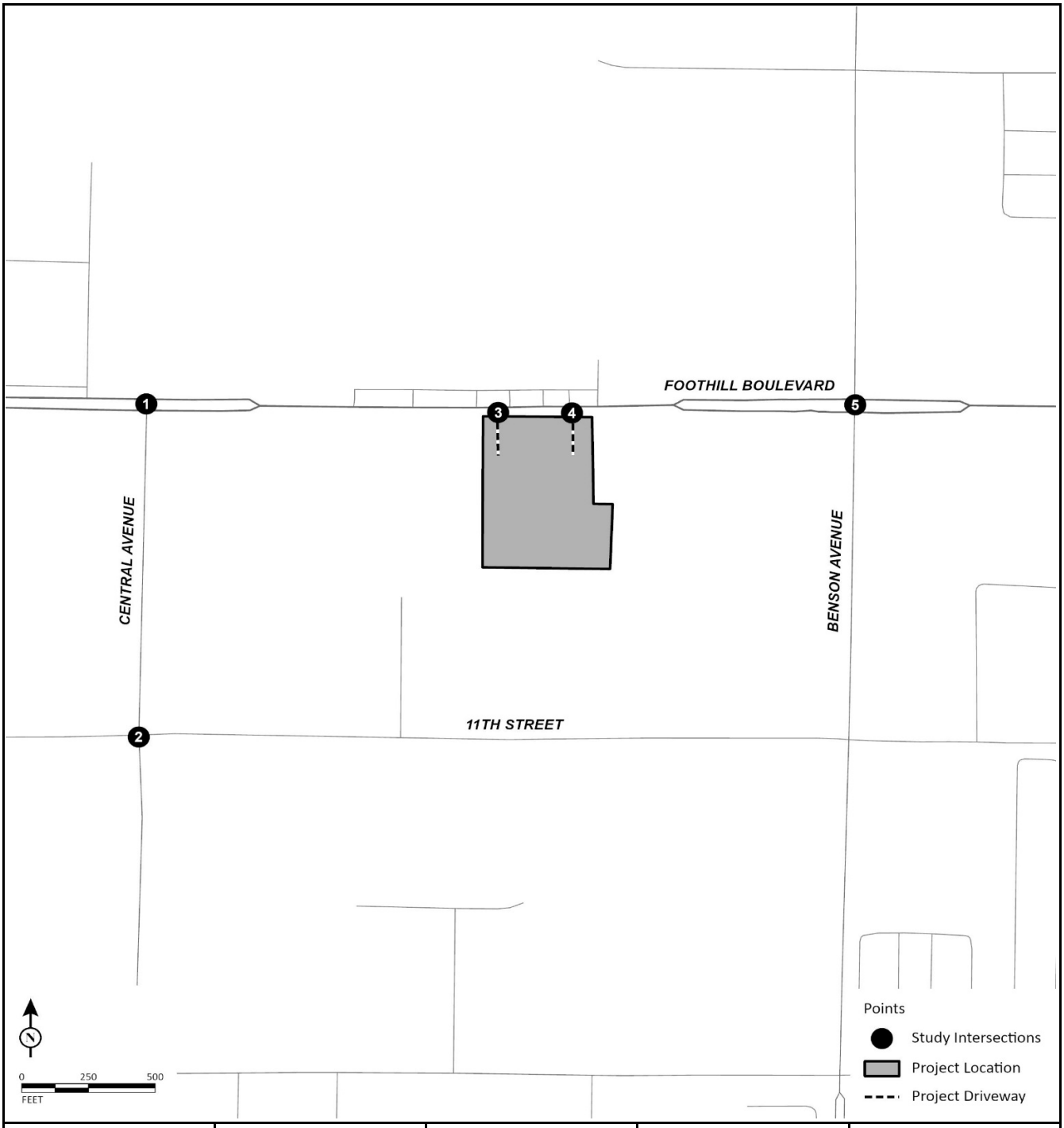
5.2 PROJECT TRIP DISTRIBUTION AND ASSIGNMENT

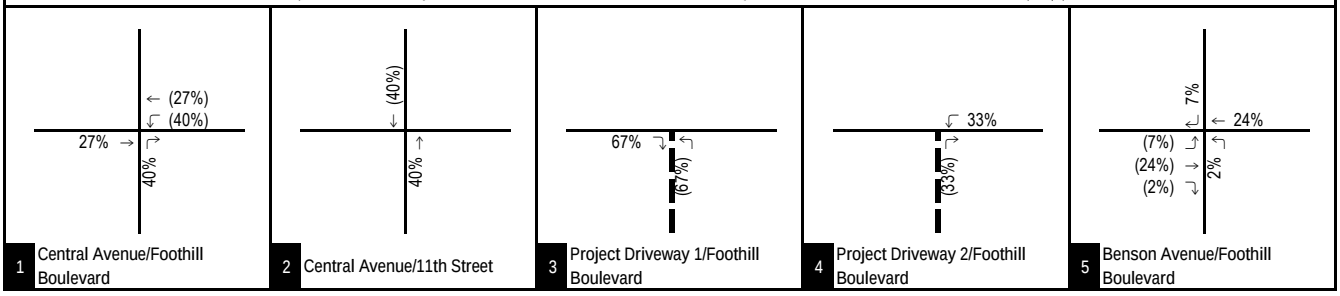
The project trip distribution patterns were derived from the select zone model runs obtained from the San Bernardino Transportation Analysis Model (SBTAM). Because the project has two different land uses, a separate distribution was prepared for each land use. Additionally, since trucks typically have different travel patterns than passenger vehicles, separate trip distributions were developed for passenger vehicles and trucks for the warehousing component of the project. The select zone model plots are included in Appendix A. Figure 5-1 illustrates the passenger vehicle trip distribution for the warehouse. Figure 5-2 illustrates the truck trip distribution for the warehouse. Figure 5-3 illustrates the trip distribution for the fast-food restaurant.

The project trip assignment at the study intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figures 5-4 and 5-5 respectively illustrate the passenger vehicle and truck trip distributions for the warehouse. Figure 5-6 illustrates the net trip assignment for the fast-food restaurant. Figure 5-7 illustrates the total pass-by trip assignment for the fast-food restaurant. Figure 5-8 illustrates the total project net trip assignment.

5.3 LIST OF CHAPTER 5.0 FIGURES AND TABLES

- Figure 5-1: Project Trip Distribution – Warehouse (Passenger Vehicles)
- Figure 5-2: Project Trip Distribution – Warehouse (Trucks)
- Figure 5-3: Project Trip Distribution – Fast-Food Restaurant
- Figure 5-4: Project Trip Assignment – Warehouse (Passenger Vehicles)
- Figure 5-5: Project Trip Assignment – Warehouse (Trucks)
- Figure 5-6: Project Trip Assignment – Fast-Food Restaurant
- Figure 5-7: Project Total Pass-by Trip Assignment
- Figure 5-8: Total Project Trip Assignment
- Table 5-A: Project Trip Generation





1 Central Avenue/Foothill Boulevard
2 Central Avenue/11th Street
3 Project Driveway 1/Foothill Boulevard
4 Project Driveway 2/Foothill Boulevard
5 Benson Avenue/Foothill Boulevard

LSA

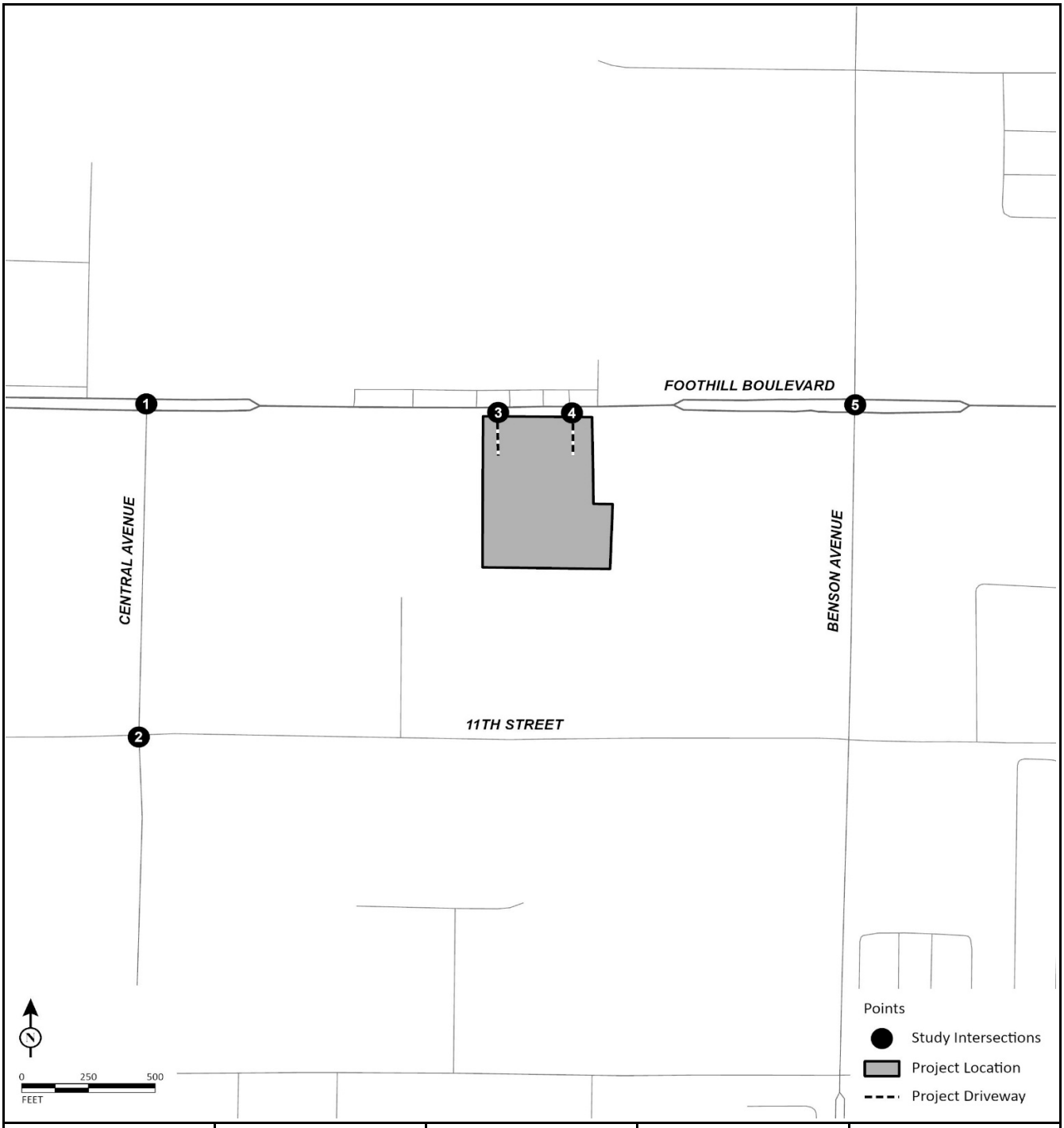
FIGURE 5-1

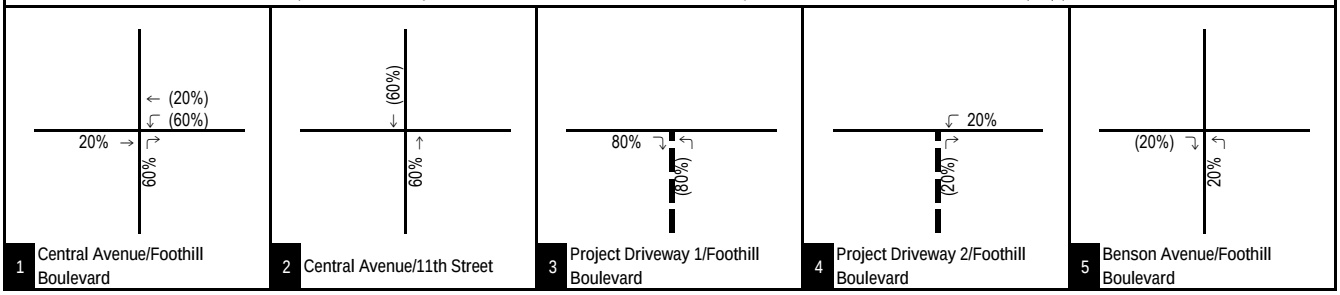
XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Project Trip Distribution - Warehouse (Passenger Vehicles)

P:\MVP2201 1650 Foothill CEQA + Tech\02 Technical Studies\2.3 Transportation\z30_Warehouse_Passenger Car_Dist.xlsx\Figure (2/13/2023)





1 Central Avenue/Foothill Boulevard
2 Central Avenue/11th Street
3 Project Driveway 1/Foothill Boulevard
4 Project Driveway 2/Foothill Boulevard
5 Benson Avenue/Foothill Boulevard

LSA

FIGURE 5-2

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Project Trip Distribution - Warehouse (Trucks)

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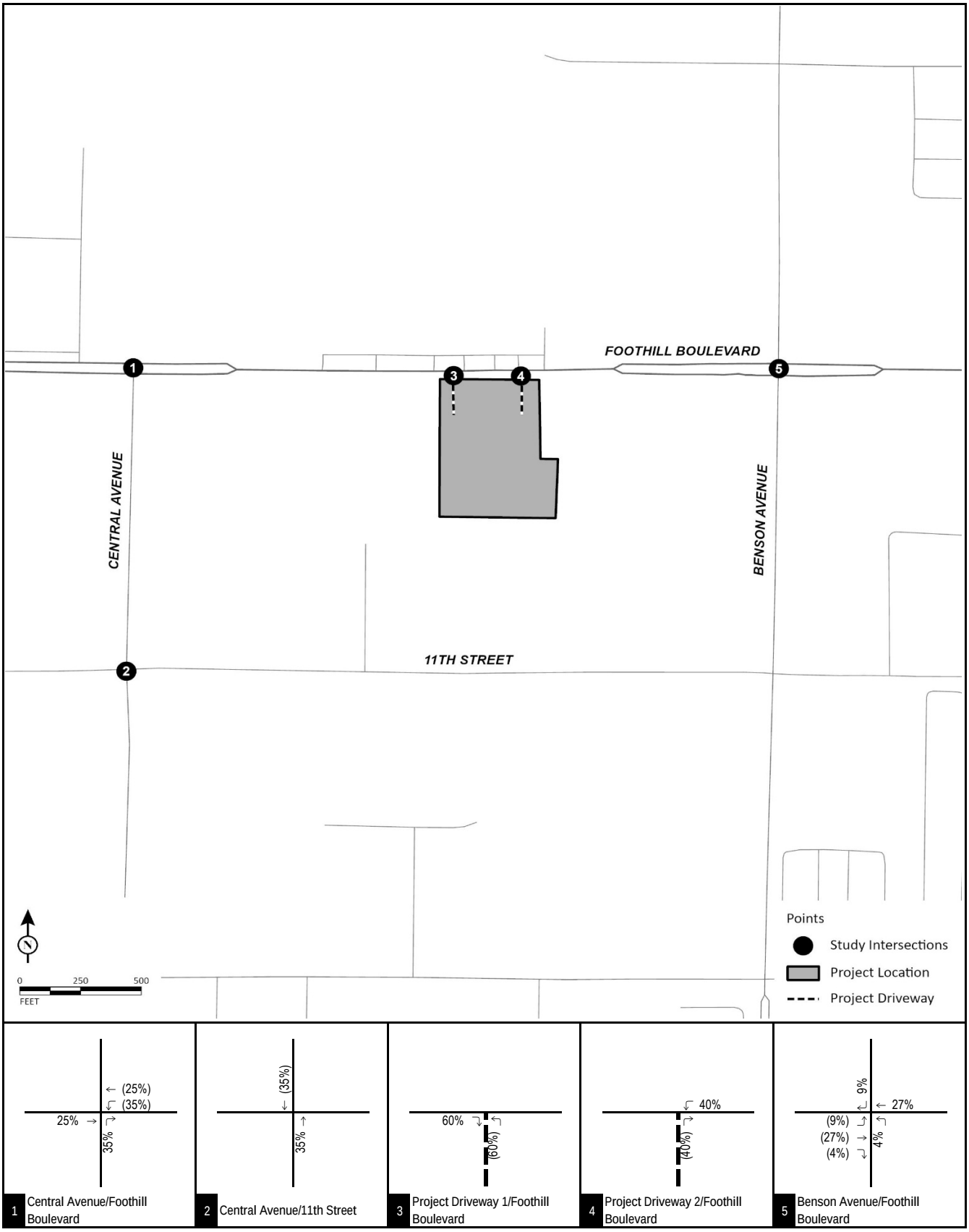

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FIGURE 5-3

XX% (YY%)
Inbound (Outbound) Trip Distribution
Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Project Trip Distribution - Fast-Food Restaurant

P:\MVP2201 1650 Foothill CEQA + Tech\02 Technical Studies\2.3 Transportation\z30_Fast Food_Dist.xlsx\Figure (2/13/2023)

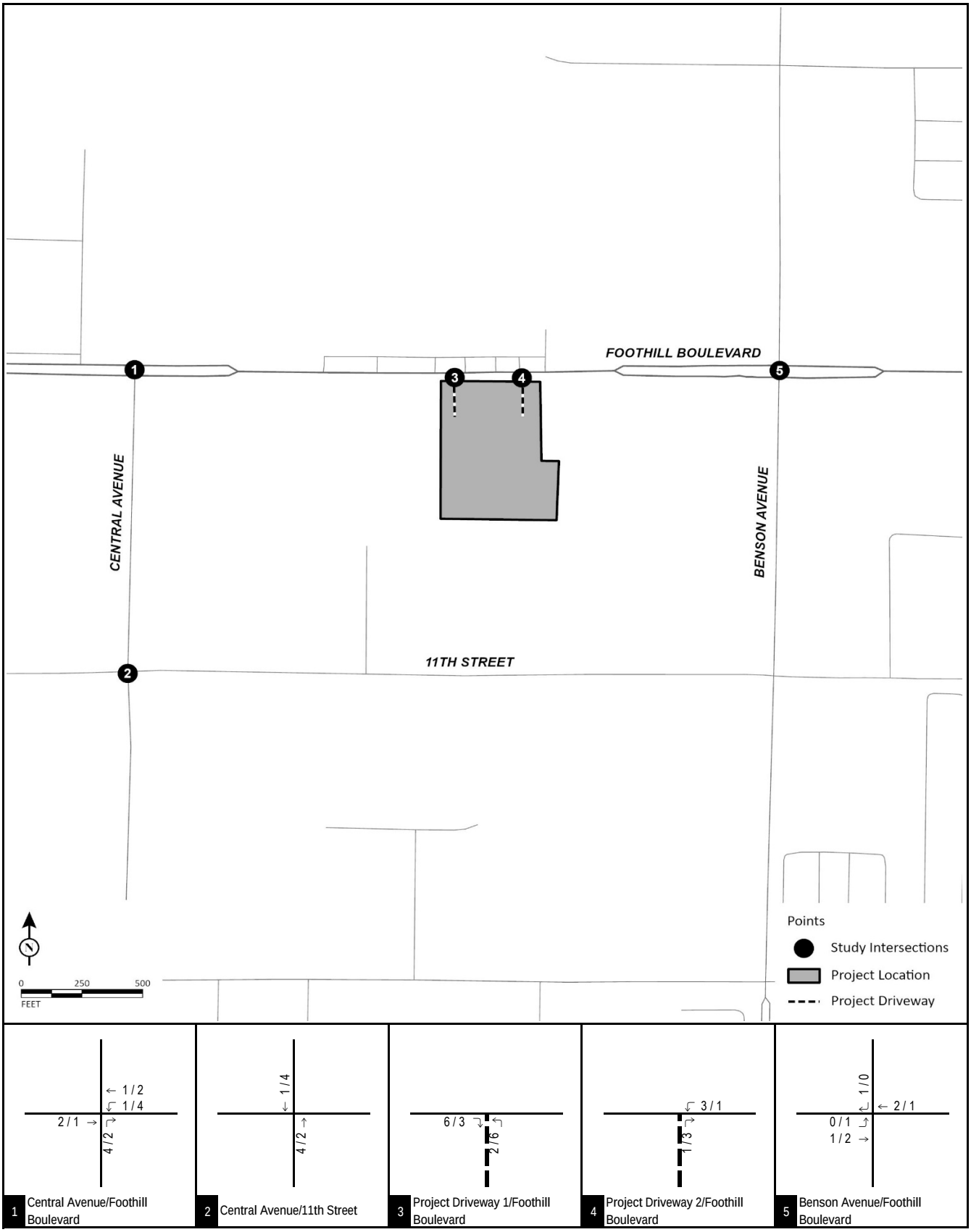

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FIGURE 5-4

X / Y
AM / PM Peak Hour Trips
---- Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Project Trip Assignment - Warehouse (Passenger Vehicles)

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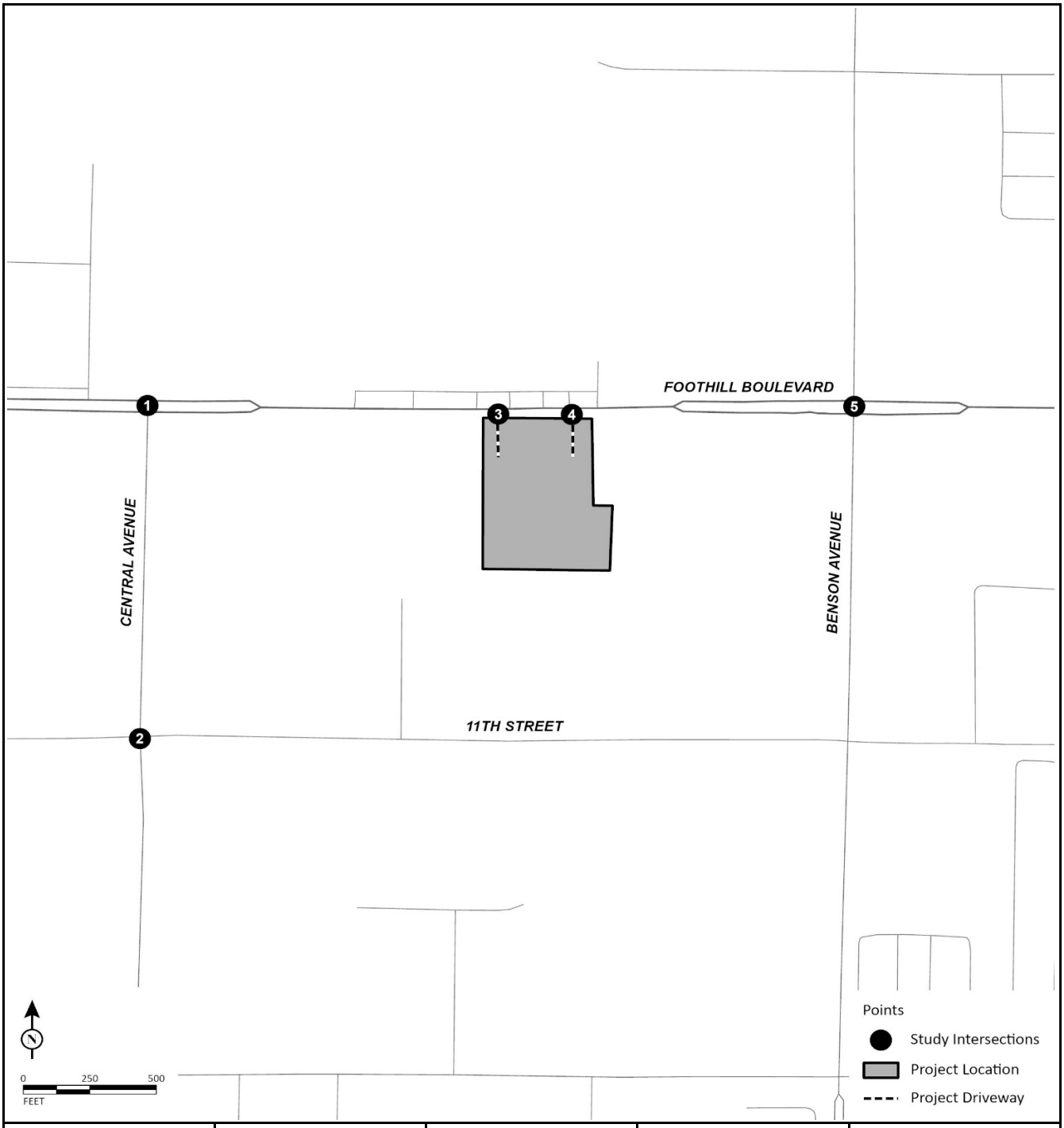

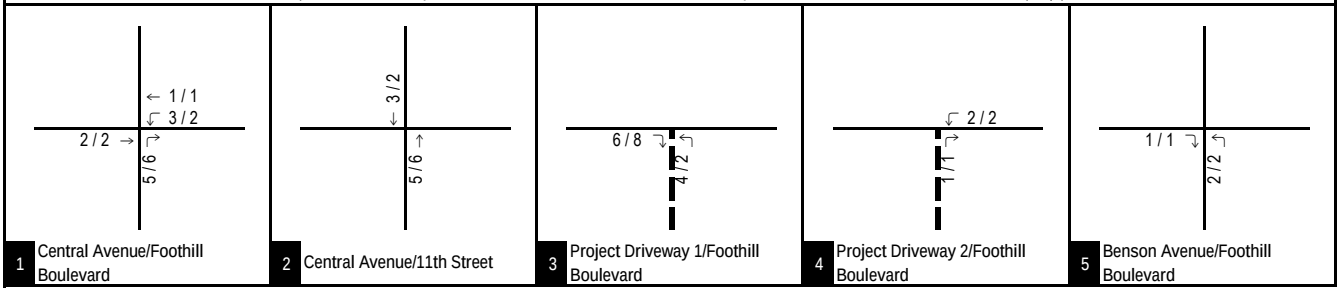

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FIGURE 5-5

X / Y
AM / PM Peak Hour Trips
---- Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Project Trip Assignment - Warehouse (Trucks)

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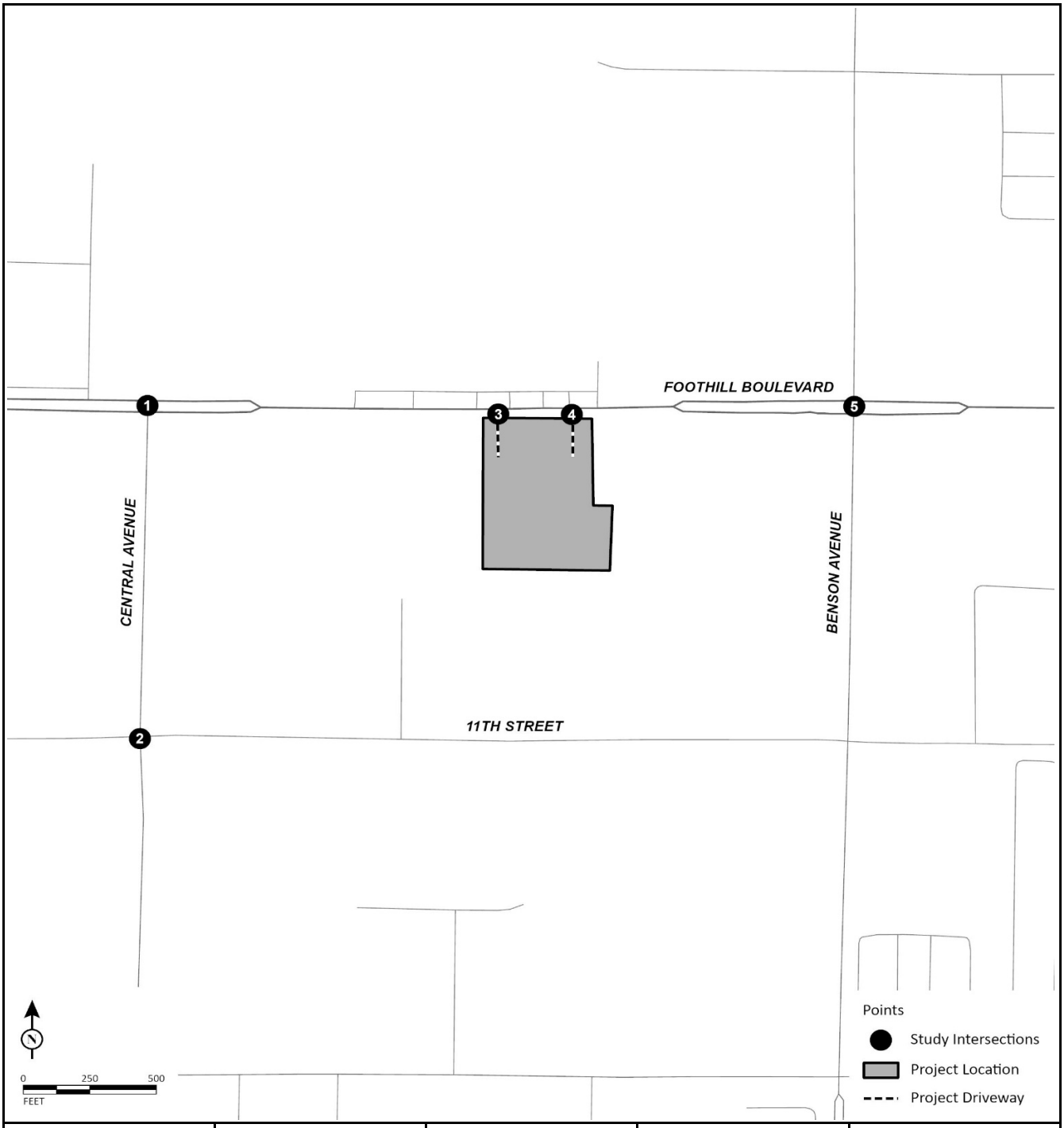

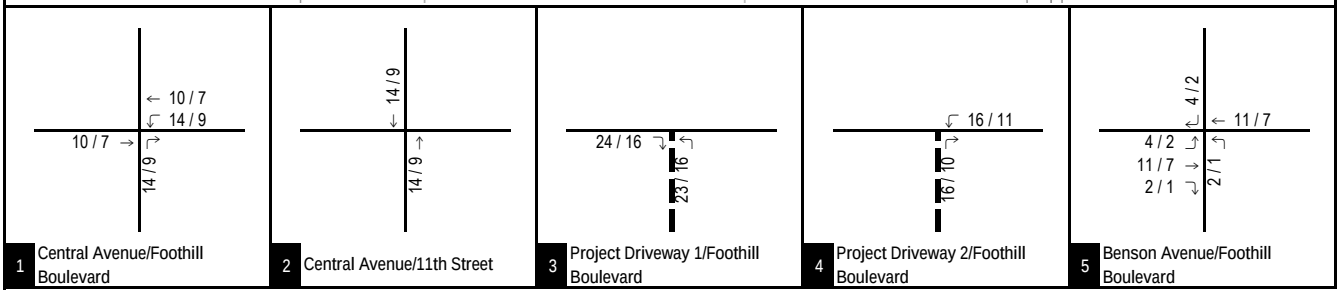

LSA

FIGURE 5-6

XX / YY
AM / PM Peak Hour Trips
---- Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Project Trip Assignment - Fast-Food Restaurant

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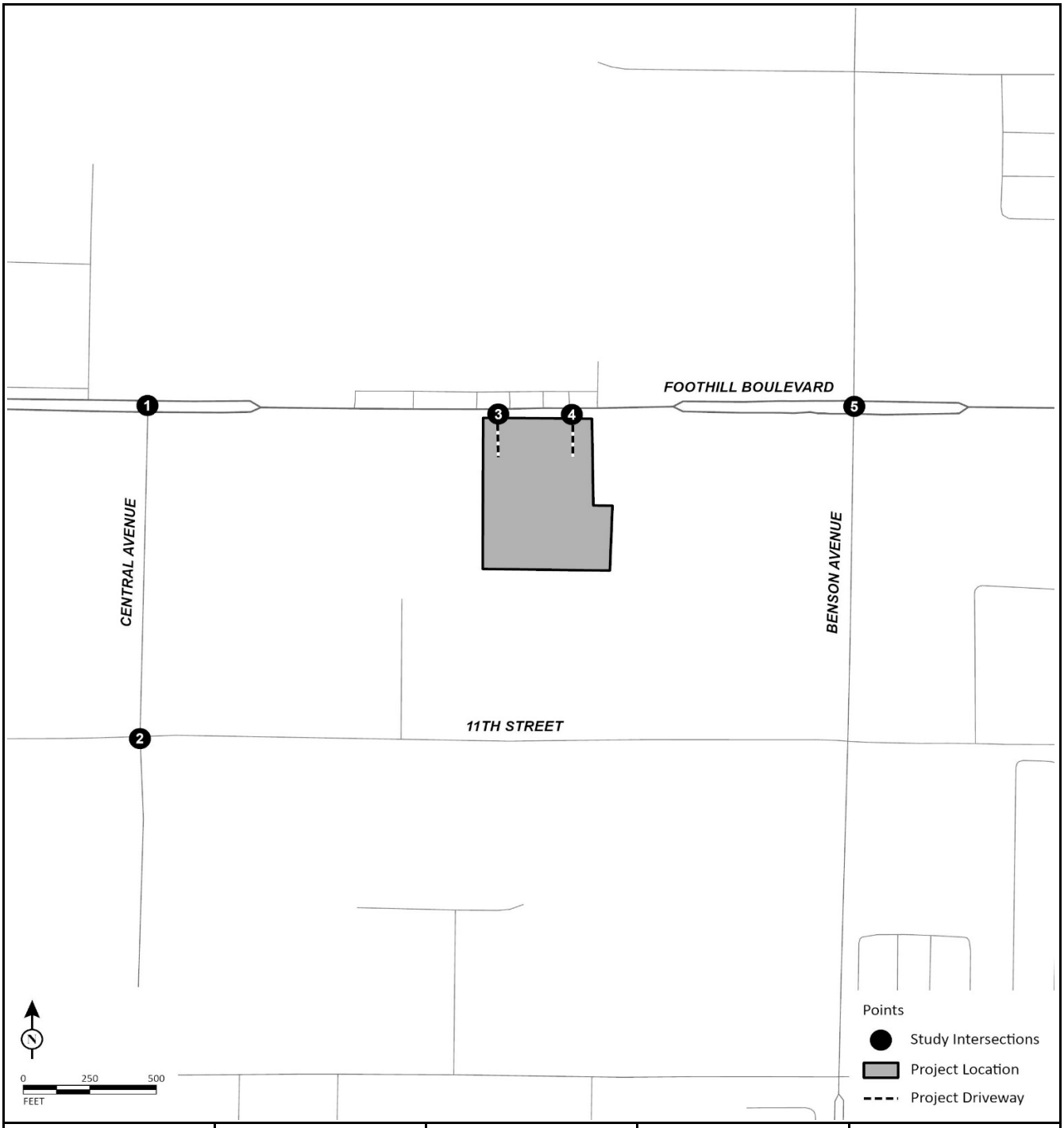

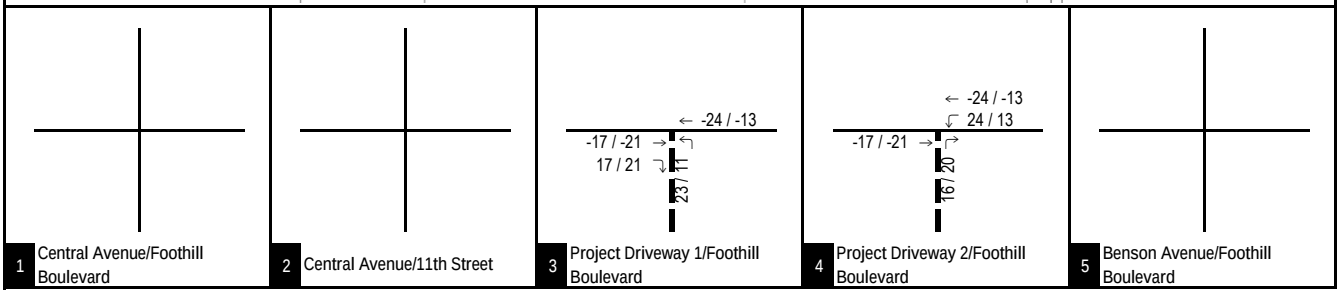

1 Central Avenue/Foothill Boulevard
2 Central Avenue/11th Street
3 Project Driveway 1/Foothill Boulevard
4 Project Driveway 2/Foothill Boulevard
5 Benson Avenue/Foothill Boulevard

LSA

FIGURE 5-7

XX / YY
AM / PM Peak Hour Trips
---- Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Project Total Pass-by Trip Assignment

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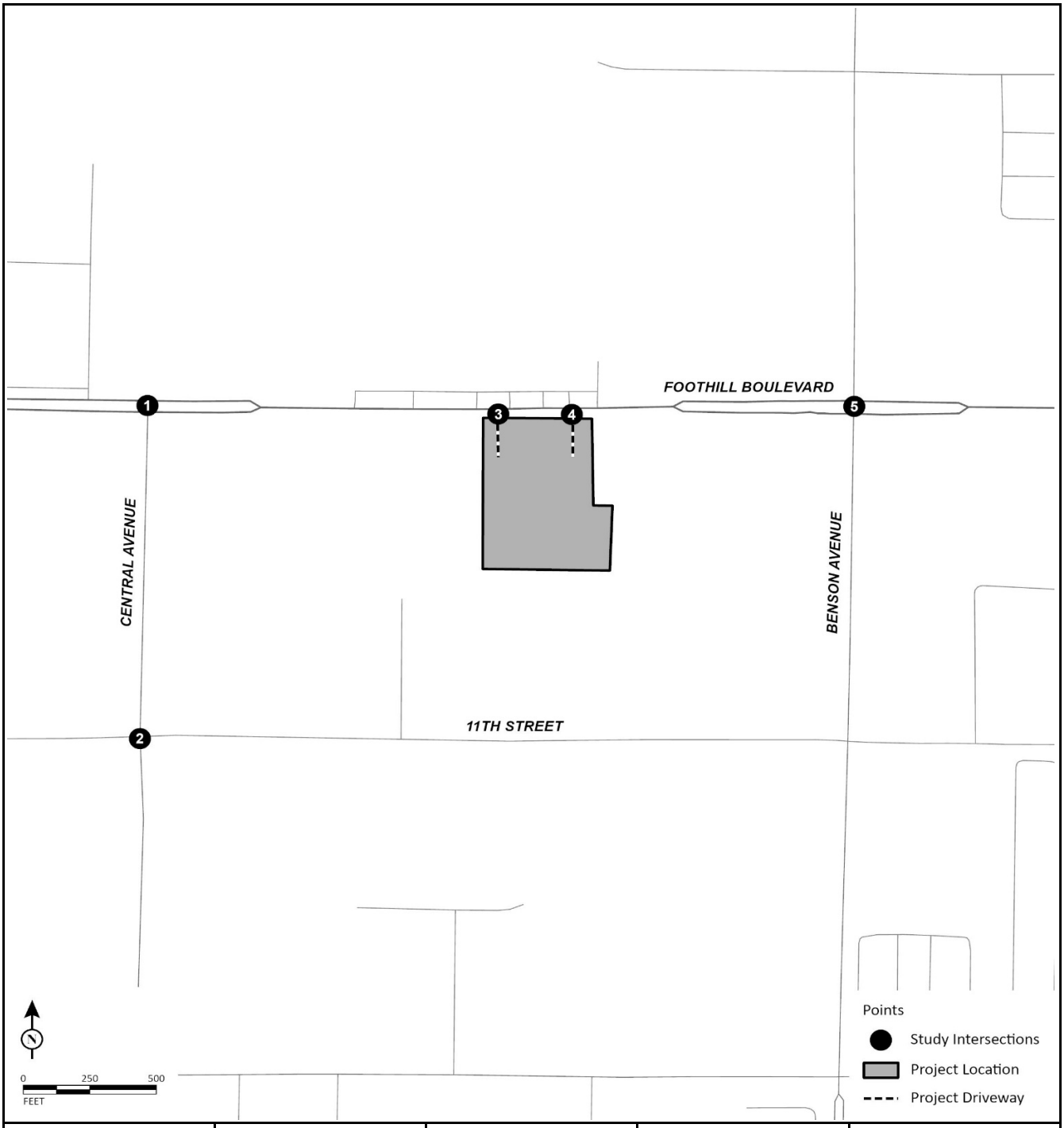

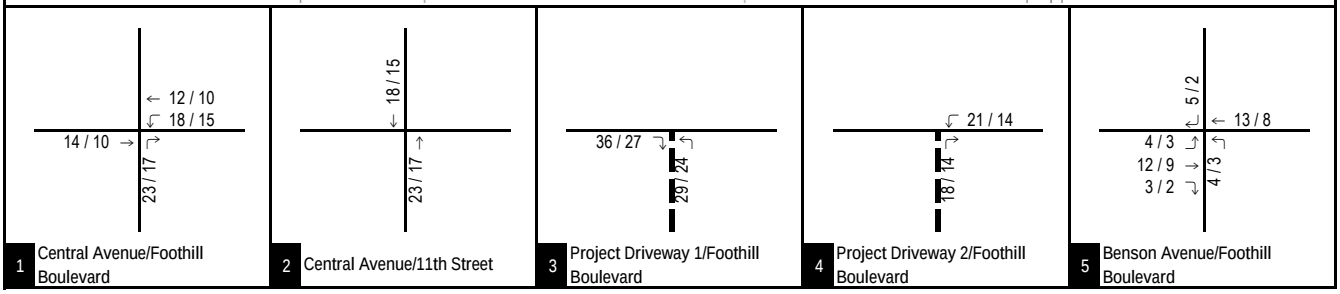

1 Central Avenue/Foothill Boulevard
2 Central Avenue/11th Street
3 Project Driveway 1/Foothill Boulevard
4 Project Driveway 2/Foothill Boulevard
5 Benson Avenue/Foothill Boulevard

LSA

FIGURE 5-8

XX / YY
AM / PM Peak Hour Trips
---- Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Total Project Trip Assignment

P:\MVP2201 1650 Foothill CEQA + Tech\02 Technical Studies\2.3 Transportation\z30_Total Net Assign.xlsx\Figure (2/13/2023)

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Table 5-A - Project Trip Generation

Land Uses	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
Warehouse[1,2,3,4]								
	101.092 TSF							
Trips/Unit (Cars)		0.09	0.03	0.12	0.03	0.09	0.12	1.18
Trips/Unit (2-Axle Trucks)		0.01	0.01	0.01	0.01	0.01	0.01	0.12
Trips/Unit (3-Axle Trucks)		0.00	0.00	0.01	0.01	0.00	0.01	0.09
Trips/Unit (4+ Axle Trucks)		0.02	0.02	0.03	0.02	0.02	0.03	0.32
Trips/Unit (Total)		0.12	0.05	0.17	0.06	0.12	0.18	1.71
Trip Generation (Cars)		9	3	12	4	9	13	120
Trip Generation (2-Axle Trucks)		1	0	1	1	0	1	12
Trip Generation (3-Axle Trucks)		0	1	1	1	0	1	10
Trip Generation (4+ Axle Trucks)		2	1	3	2	1	3	33
Trip Generation (Total Trucks)		3	2	5	4	1	5	55
Trip Generation (Total)		12	5	17	8	10	18	175
Trip Generation (Cars)		9	3	12	4	9	13	120
PCE Trip Generation (2-Axle Trucks)		2	0	2	2	0	2	18
PCE Trip Generation (3-Axle Trucks)		0	2	2	2	0	2	20
PCE Trip Generation (4+ Axle Trucks)		6	3	9	6	3	9	99
PCE Trip Generation (Total Trucks)		8	5	13	10	3	13	137
PCE Trip Generation (Total)		17	8	25	14	12	26	257
Fast Food Restaurant with Drive-Through Window								
	3.570 TSF							
Trips/Unit (Cars)[5]		22.75	21.86	44.61	17.18	15.85	33.03	467.48
Trip Generation (Cars)		81	78	159	61	57	118	1,669
Pass-By Trips[6]		(41)	(39)	(80)	(34)	(31)	(65)	(876)
Net Trip Generation (Cars)		40	39	79	27	26	53	793
Total Gross Trip Generation (Passenger Vehicles)		**90**	**81**	**171**	**65**	**66**	**131**	**1,789**
Total Gross PCE Trip Generation (Trucks)		**8**	**5**	**13**	**10**	**3**	**13**	**137**
Total Gross PCE Trip Generation		**98**	**86**	**184**	**75**	**69**	**144**	**1,926**
Total Net Pass-By Trips		**(41)**	**(39)**	**(80)**	**(34)**	**(31)**	**(65)**	**(876)**
Total Net PCE Trip Generation		**57**	**47**	**104**	**41**	**38**	**79**	**1,050**

Notes:

TSF = Thousand Square Feet; PCE = Passenger Car Equivalent

[1] Rates obtained from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition) for Land Use 150 - "Warehousing", Setting Location - "General Urban/Suburban."

[2] Passenger vehicle and truck in/out splits obtained from the ITE *Trip Generation Manual* (11th Edition), Land Use 150 – "Warehousing", Setting/Location - "General Urban/Suburban."

[3] The resulting trips were converted to trucks and passenger vehicles based on the South Coast Air Quality Management District (SCAQMD) recommendations for warehousing projects. As such, 31 percent of project traffic will be trucks. Based on the vehicle mix from the SCAQMD *Warehouse Truck Trip Study Data Results and Usage* , dated December 2014, the truck mix was considered as 18.7% 4+ axle, 5.5% 3-axle, and 6.8% 2-axle trucks. Further, all truck trips were converted to PCEs using a PCE factor of 1.5 for 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for 4- and more axle trucks.

[4] This Initial Study evaluates the proposed warehouse buildings with a combined 101,092 square feet of space, while the latest plans dated 2/9/2023 and submitted to the City indicate the proposed warehouse space totals approximately 94,435 square feet. Accordingly, the trip generation assumes a greater square footage than what is proposed and therefore, discloses potentially greater effects than what would occur under the proposed project.

[5] Rates obtained from the ITE *Trip Generation Manual* (11th Edition) for Land Use 934 - "Fast-Food Restaurant with Drive-Through Window", Setting Location - "General Urban/Suburban."

[6] Pass-by rates obtained from the ITE Trip Generation Manual (11th Edition) for Land Use 934 – "Fast-Food Restaurant with Drive-Through Window." Daily pass-by rates are not available for this land use in the ITE Manual; therefore, the average of the a.m. and p.m. peak hour pass-by rates was used as the daily pass-by rate.

6.0 OPENING YEAR ANALYSIS

6.1 OPENING YEAR (2024) WITHOUT PROJECT TRAFFIC VOLUMES

As approved during the City's scoping agreement process (Appendix A), traffic volumes for opening year without project conditions were developed by applying a growth of 2.0 percent per annum to existing traffic volumes and adding trips from approved and pending development projects in the area. This methodology was applied for both study intersections and roadway segments. Information concerning cumulative projects in the vicinity of the proposed project was obtained from City staff and nearby jurisdictions. Figure 6-1 illustrates the cumulative project locations. Trip generation for cumulative projects was either obtained from the respective traffic studies prepared for the projects or developed using rates from the ITE *Trip Generation Manual* (11th Edition). Table 6-A lists the cumulative projects included in this analysis and shows the cumulative projects are estimated to generate 2,200 net trips in the a.m. peak hour, 2,278 net trips in the p.m. peak hour, and 288,678 net daily trips.

Cumulative project trips were assigned to the roadway network based on their locations in relation to surrounding land uses and regional arterials. Figure 6-2 illustrates the total peak hour cumulative project trip assignment at study area intersections. Figure 6-3 illustrates the peak hour traffic volumes at study intersections under opening year without project conditions. Table 6-B summarizes opening year without project daily traffic volumes at study area roadway segments.

6.2 OPENING YEAR (2024) PLUS PROJECT TRAFFIC VOLUMES

Opening year plus project traffic volumes were developed by adding proposed project traffic to the opening year without project traffic volumes. Figure 6-4 illustrates the opening year plus project peak hour traffic volumes at study intersections. Table 6-C summarizes opening year plus project daily traffic volumes at study area roadway segments.

Detailed volume development worksheets are included in Appendix C.

6.3 OPENING YEAR (2024) WITHOUT PROJECT LEVELS OF SERVICE

6.3.1 Study Intersections

An intersection LOS analysis was conducted for opening year without project conditions using the methodologies previously discussed. Table 6-D summarizes the results of the analysis and shows that the following intersection is forecast to operate at a deficient LOS under opening year without project conditions:

5. Benson Avenue/Foothill Boulevard (p.m. peak hour only).

All other intersections are forecast to operate at a satisfactory LOS. Detailed LOS worksheets are included in Appendix D.

6.3.2 Roadway Segments

A roadway segment LOS analysis was conducted for opening year conditions using the methodologies previously discussed. Table 6-D summarizes the results of this analysis and shows that all roadway segments are forecast to operate at a satisfactory LOS.

6.4 OPENING YEAR (2024) PLUS PROJECT LEVELS OF SERVICE

6.4.1 Study Intersections

An intersection LOS analysis was conducted for opening year plus project conditions using the methodologies previously discussed. Table 6-C summarizes the results of the analysis and shows that the following intersection is forecast to operate at a deficient LOS under opening year plus project conditions:

5. Benson Avenue/Foothill Boulevard (p.m. peak hour only).

This intersection is also forecast to operate at a deficient LOS even under opening year without project conditions. Therefore, the project would contribute to the forecast deficiency at this intersection.

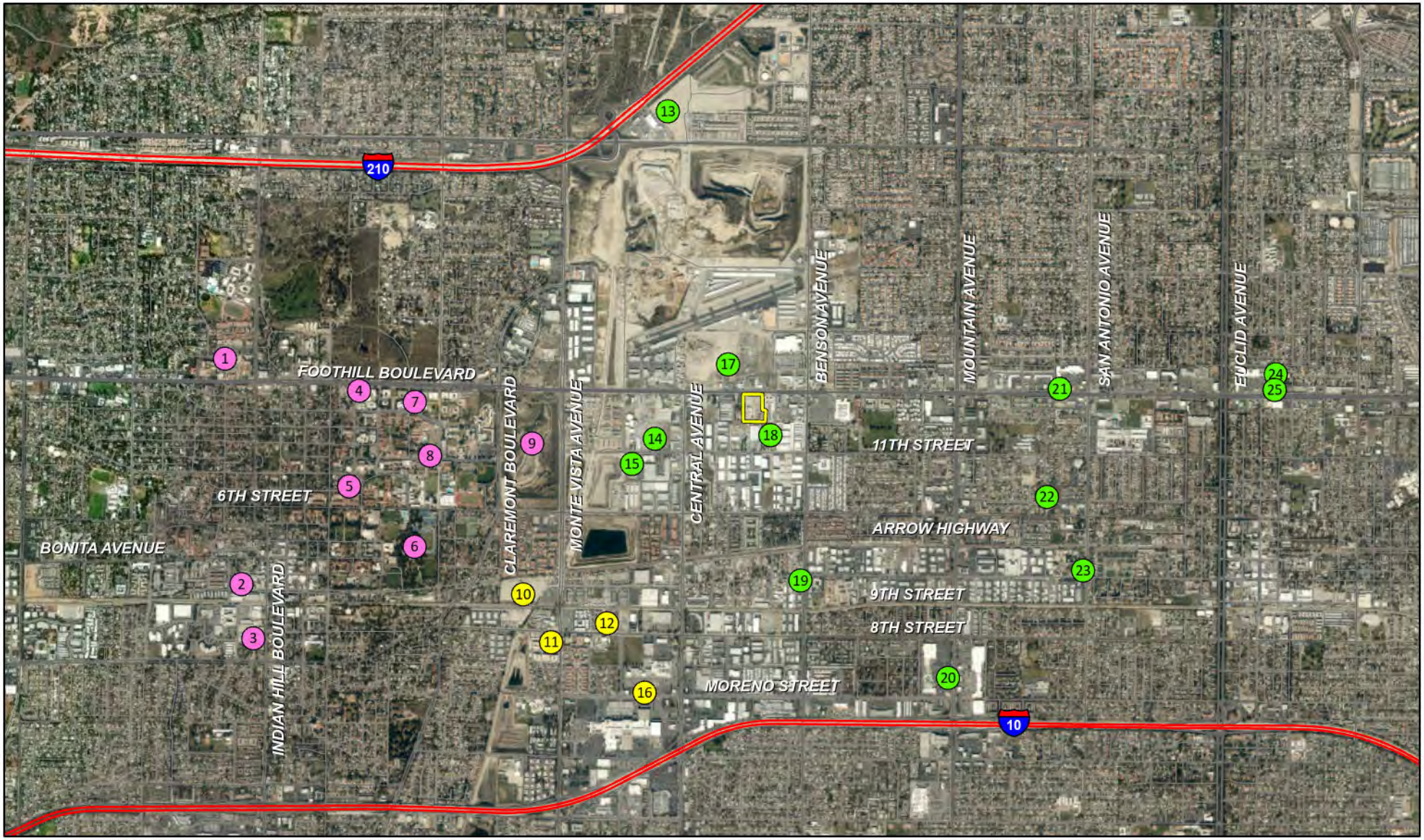
All other intersections are forecast to operate at a satisfactory LOS under opening year plus project conditions. Detailed LOS worksheets are included in Appendix D.

6.4.2 Roadway Segments

A roadway segment LOS analysis was conducted for opening year plus project conditions using the methodologies previously discussed. Previously referenced Table 6-D summarizes the results of this analysis and shows that all roadway segments are forecast to operate at a satisfactory LOS under opening year plus project conditions.

6.5 LIST OF CHAPTER 6.0 FIGURES AND TABLES

- Figure 6-1: Cumulative Project Locations
- Figure 6-2: Cumulative Projects Trip Assignment
- Figure 6-3: Opening Year (2024) without Project Peak Hour Traffic Volumes
- Figure 6-4: Opening Year (2024) plus Project Peak Hour Traffic Volumes
- Table 6-A: Cumulative Projects Trip Generation
- Table 6-B: Opening Year (2024) Roadway Segment Daily Traffic Volumes
- Table 6-C: Opening Year (2024) Intersection Levels of Service
- Table 6-D: Opening Year (2024) Roadway Segment Levels of Service



LSA

LEGEND

Project Site

Cumulative Projects

- City of Claremont
- City of Upland
- City of Montclair

0 1500 3000

FEET

SOURCE: Google Earth, 2021; ESRI Streetmap, 2021.

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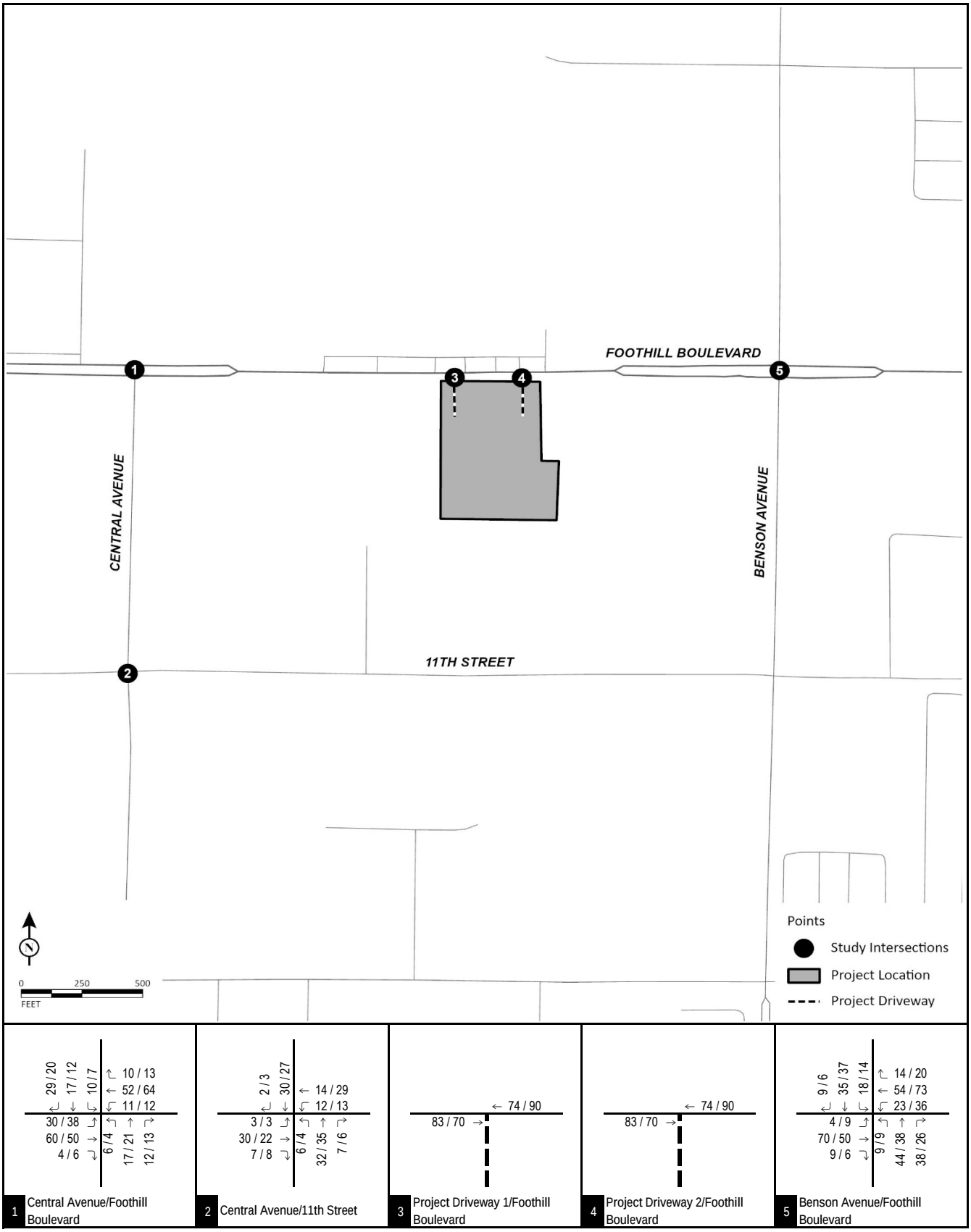
FIGURE 6-1

West Foothill Development Project
Traffic Impact Analysis

Cumulative Project Locations



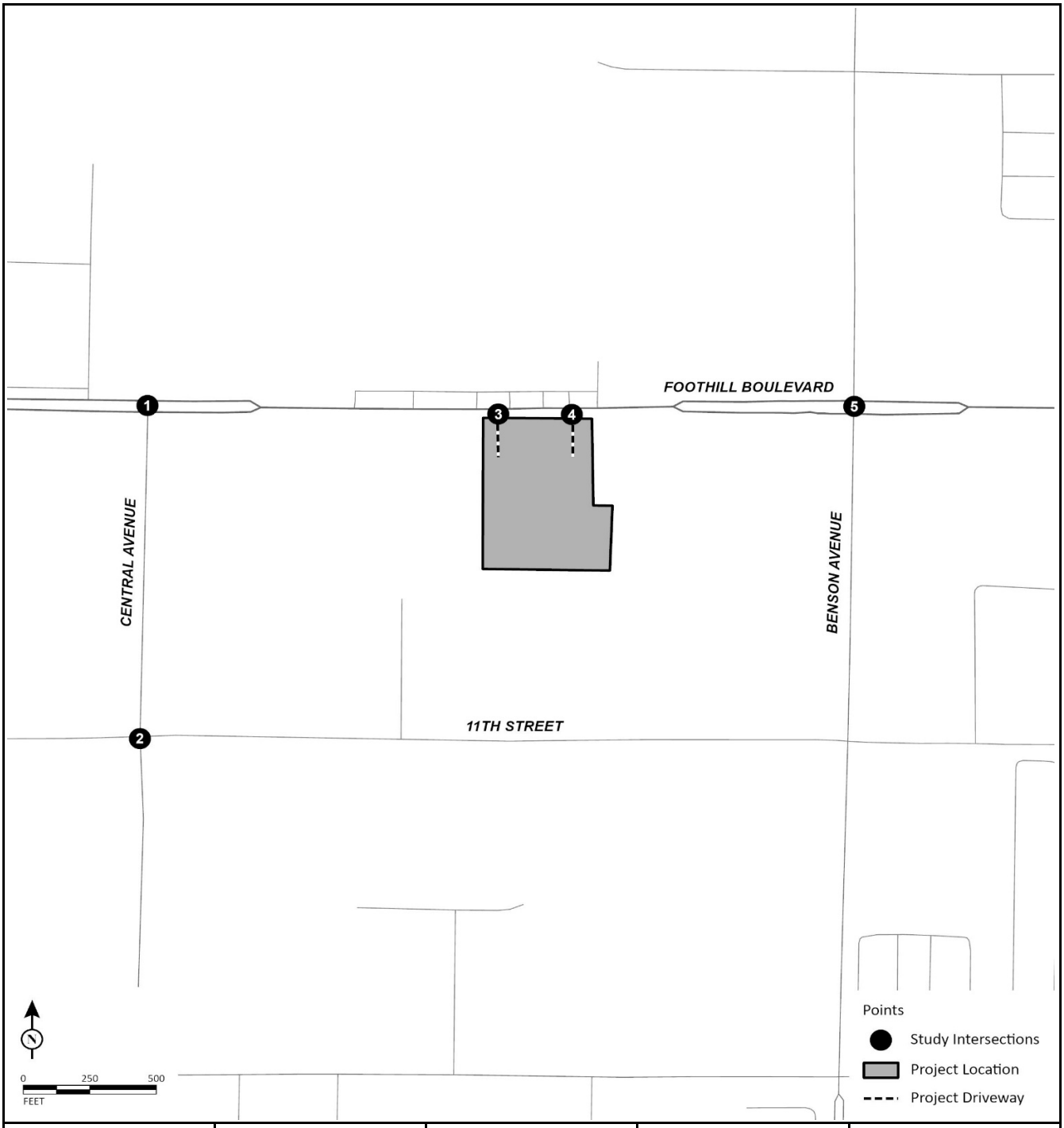
LSA

FIGURE 6-2

XX / YY
AM / PM Peak Hour Trips
---- Driveway

West Foothill Development Project
Traffic Impact Analysis

Cumulative Project Trip Assignment



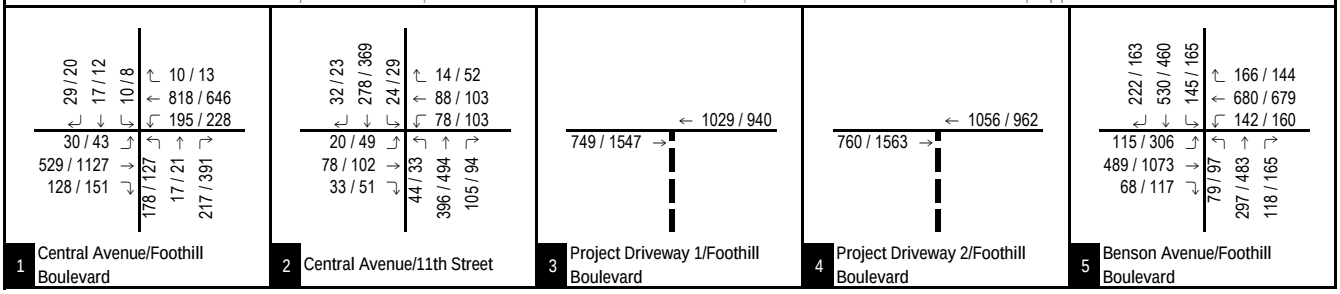


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FIGURE 6-3

XXXX / YYYY
AM / PM Peak Hour PCE Traffic Volumes
---- Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Opening Year (2024) without Project Peak Hour Traffic Volumes

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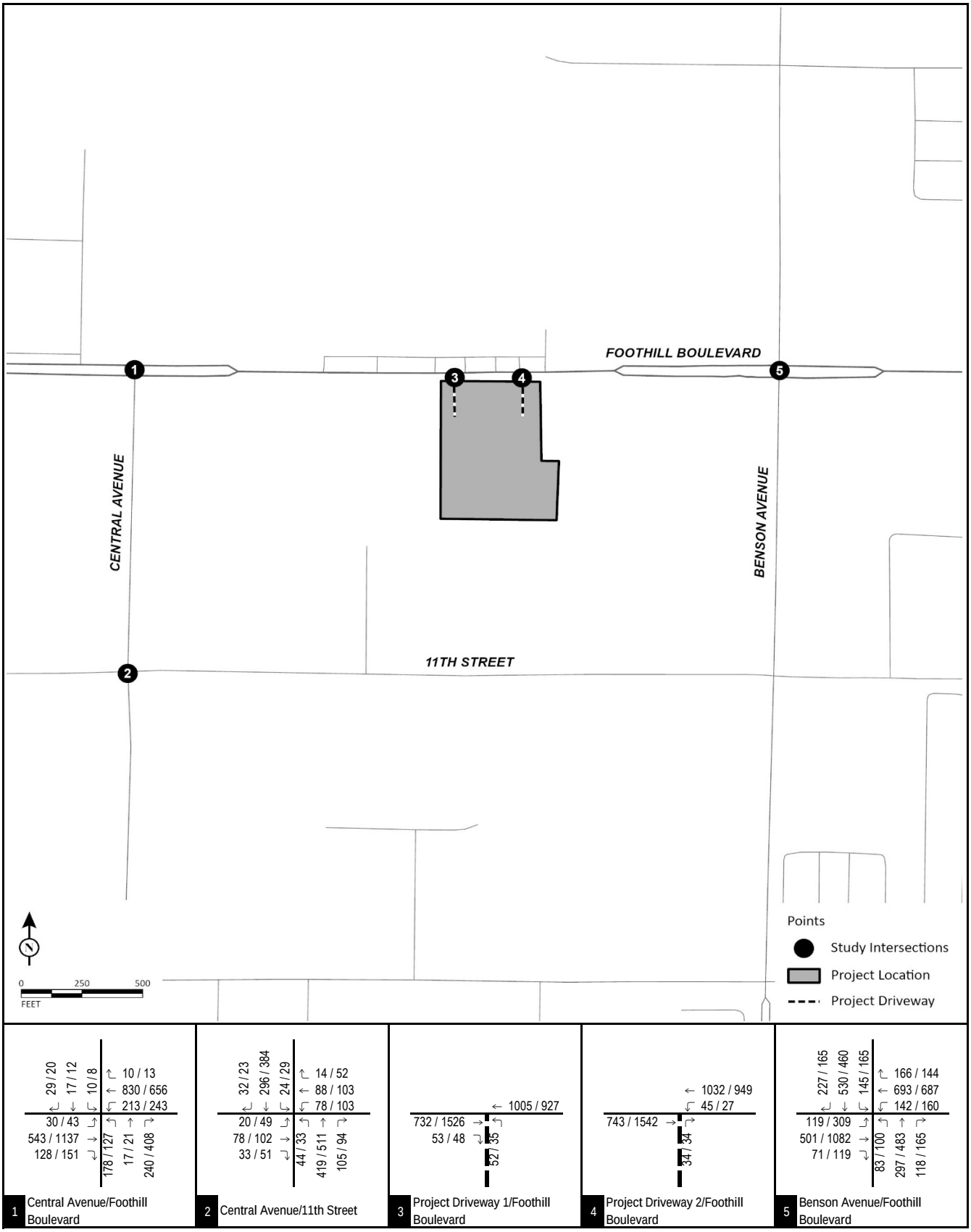

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FIGURE 6-4

XXXX / YYYY
AM / PM Peak Hour PCE Traffic Volumes
---- Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Opening Year (2024) plus Project Peak Hour Traffic Volumes

P:\MVP2201 1650 Foothill CEQA + Tech\02 Technical Studies\2.3 Transportation\z30_Vol_OY-WP.xlsx\Figure (2/13/2023)

LSA

Table 6-A - Cumulative Projects Trip Generation

Project No.	Land Use/Builder/Applicant/Project Name	Units		A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
1.	**Doubletree Hotel/Old School House Specific Plan**									
	North of Foothill Boulevard and west of Indian Hill Boulevard									
	Multifamily Housing (Low-Rise) Not Close to Rail Transit[1]	126	DU							
	Trips/Unit			0.10	0.30	0.40	0.32	0.19	0.51	6.74
	Trip Generation			13	38	51	40	24	64	849
2.	**Village Lofts**									
	127 Oberlin Avenue									
	Multifamily Housing (Low-Rise) Not Close to Rail Transit[1]	74	DU							
	Trips/Unit			0.10	0.30	0.40	0.32	0.19	0.51	6.74
	Trip Generation			7	22	29	24	14	38	499
	Strip Retail Plaza (<40k)[2]	5.000	TSF							
	Trips/Unit			1.42	0.94	2.36	3.30	3.29	6.59	54.45
	Trip Generation			7	5	12	17	16	33	272
	Pass-by Trips[3]			0	0	0	(7)	(6)	(13)	(109)
	Net New Trips			7	5	12	10	10	20	163
		Gross Trip Generation		14	27	41	41	30	71	771
		Pass-by Trips		0	0	0	(7)	(6)	(13)	(109)
		Net Trip Generation		14	27	41	34	24	58	662
3.	**South Village Development Project[4]**									
	North of Arrow Highway and West of Indian Hill Boulevard									
	Block 1 & 2 Trip Generation			78	118	196	123	42	165	2,575
	Block 3 & 4 Trip Generation			82	118	200	134	81	215	2,880
	Block 5 Trip Generation			7	18	25	16	9	25	341
	Block 6 Trip Generation			28	66	94	64	39	103	1,388
	Block 7 Trip Generation			11	19	30	20	(1)	19	325
4.	**CGU Master Plan**									
	Generally bounded by south of Foothill Boulevard and east of Dartmouth									
	University/College[5]	475	STU							
	Trips/Unit			0.12	0.03	0.15	0.05	0.10	0.15	1.56
	Trip Generation			57	14	71	24	48	72	741
5.	**Claremont McKenna College Master Plan**									
	South of 8th Street and West of College Way									
	University/College[5]	250	STU							
	Trips/Unit			0.12	0.03	0.15	0.05	0.10	0.15	1.56
	Trip Generation			30	8	38	13	25	38	390
6.	**Pomona College 2015 Master Plan**									
	South of 6th Street and West of Claremont									
	University/College[5]	50	STU							
	Trips/Unit			0.12	0.03	0.15	0.05	0.10	0.15	1.56
	Trip Generation			6	2	8	3	5	8	78
7.	**Harvey Mudd College 2015 Master Plan Amendment**									
	South of East Foothill Boulevard and north of Platt Boulevard, between Nor									
	University/College[5]	100	STU							
	Trips/Unit			0.12	0.03	0.15	0.05	0.10	0.15	1.56
	Trip Generation			12	3	15	5	10	15	156
8.	**Keck Science Center Expansion**									
	925 Mills Avenue									
	University/College[5]	70.000	TSF							
	Trips/Unit			0.12	0.03	0.15	0.05	0.10	0.15	1.56
	Trip Generation			8	2	10	4	7	11	109

LSA

Table 6-A - Cumulative Projects Trip Generation

Project No.	Land Use/Builder/Applicant/Project Name	Units		A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
9.	**Claremont Colleges East Campus (Sports Complex), TPM**									
	South of Foothill Boulevard between Claremont Boulevard and Monte Vista Avenue									
	Public Park[6]	75.000	AC							
	Trips/Unit			0.01	0.01	0.02	0.06	0.05	0.11	0.78
	Trip Generation			1	1	2	5	4	9	59
10.	**Montclair Station**									
	4700 Huntington Drive									
	Multifamily Housing (Low-Rise) Not Close to Rail Transit[1]	302	DU							
	Trips/Unit			0.10	0.30	0.40	0.32	0.19	0.51	6.74
	Trip Generation			30	91	121	97	57	154	2,035
11.	**Alexan Kendry Expansion**									
	Southwest corner of Arrow Highway and Monte Vista Avenue									
	Multifamily Housing (Low-Rise) Not Close to Rail Transit[1]	137	DU							
	Trips/Unit			0.10	0.30	0.40	0.32	0.19	0.51	6.74
	Trip Generation			14	41	55	44	26	70	923
12.	**Village at Montclair**									
	5050 Arrow Highway									
	Multifamily Housing (Low-Rise) Not Close to Rail Transit[1]	350	DU							
	Trips/Unit			0.10	0.30	0.40	0.32	0.19	0.51	6.74
	Trip Generation			35	105	140	112	67	179	2,359
	Strip Retail Plaza (<40k)[2]	25.000	TSF							
	Trips/Unit			1.42	0.94	2.36	3.30	3.29	6.59	54.45
	Trip Generation			36	24	60	83	82	165	1,361
	Pass-by Trips[3]			0	0	0	(33)	(33)	(66)	(544)
	Net New Trips			36	24	60	50	49	99	817
			Gross Trip Generation	71	129	200	195	149	344	3,720
			Pass-by Trips	0	0	0	(33)	(33)	(66)	(544)
			Net Trip Generation	71	129	200	162	116	278	3,176
13.	**Sycamore Hills PA3**									
	Baseline Road and Parkview Promenade									
	Multifamily Housing (Low-Rise) Not Close to Rail Transit[1]	176	DU							
	Trips/Unit			0.10	0.30	0.40	0.32	0.19	0.51	6.74
	Trip Generation			18	53	71	56	33	89	1,186
14.	**Lennar at the Enclave**									
	West Foothill Boulevard									
	Multifamily Housing (Low-Rise) Not Close to Rail Transit[1]	192	DU							
	Trips/Unit			0.10	0.30	0.40	0.32	0.19	0.51	6.74
	Trip Generation			19	58	77	61	36	97	1,294
15.	**Yellow Iron**									
	2068 West 11th Street									
	Industrial Park[7,8]	77.000	TSF							
	Auto Trips			11	3	14	3	11	14	137
	Truck PCE Trips			15	22	37	12	25	37	345
	Total PCE Trip Generation			26	25	51	15	36	51	482
16.	**Panera Bread Café**									
	North of Moreno Street and west of Central Avenue									
	Coffee/Donut Shop with Drive-Through Window[9]	3.950	TSF							
	Trips/Unit			43.80	42.08	85.88	19.50	19.49	38.99	533.57
	Trip Generation			173	166	339	77	77	154	2,108
	Pass-by Trips[10]			(87)	(83)	(170)	(42)	(42)	(85)	(1,107)
	Net New Trips			87	83	170	35	35	69	1,001

LSA

Table 6-A - Cumulative Projects Trip Generation

Project No.	Land Use/Builder/Applicant/Project Name	Units		A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
17.	**Bridge Point Upland Project**[11]									
	Northeast corner of Central Avenue and Foothill Boulevard									
	Auto Trip Generation			99	97	196	128	68	196	2,433
	Trucks (PCE) Trip Generation			3	3	6	3	3	6	150
18.	**T&T Industrial**									
	1701 West 11th Street									
	Industrial Park[7,8]	56.000	TSF							
	Auto Trips			8	2	10	2	8	10	100
	Truck PCE Trips			9	19	28	9	19	28	249
	Total PCE Trip Generation			17	21	38	11	27	38	349
19.	**Risen Bakery and Grill**									
	1600 West 9th Street									
	Fast-Food Restaurant with Drive-Through Window[12]	1.291	TSF							
	Trips/Unit			22.75	21.86	44.61	17.18	15.85	33.03	467.48
	Trip Generation			29	28	57	22	20	42	604
	Pass-by Trips[13]			(15)	(14)	(29)	(12)	(11)	(23)	(317)
	Net New Trips			15	14	29	10	9	19	287
20.	**Mountain Green Center**									
	335 South Mountain Avenue									
	High-Turnover (Sit-Down) Restaurant[14]	5.000	TSF							
	Trips/Unit			5.26	4.31	9.57	5.52	3.53	9.05	107.20
	Trip Generation			26	22	48	28	18	46	536
	Pass-by Trips[15]			0	0	0	(12)	(8)	(20)	(230)
	Net New Trips			26	22	48	16	10	26	306
21.	**Dutch Bros. Coffee**									
	887 West Foothill Boulevard									
	Coffee/Donut Shop with Drive-Through Window[9]	0.950	TSF							
	Trips/Unit			43.80	42.08	85.88	19.50	19.49	38.99	533.57
	Trip Generation			42	40	82	19	19	38	507
	Pass-by Trips[10]			(21)	(20)	(41)	(10)	(10)	(21)	(266)
	Net New Trips			21	20	41	9	9	17	241
22.	**Citrus Village Apartments**									
	895 & 911 West Arrow Highway									
	Senior Adult Housing - Single-Family[16]	199	DU							
	Trips/Unit			0.08	0.16	0.24	0.18	0.12	0.30	4.31
	Trip Generation			16	32	48	36	24	60	858
23.	**San Antonio Apartments**									
	North of 9th Street and west of San Antonio Avenue									
	Single-Family Detached Housing[17]	1	DU							
	Trips/Unit			0.18	0.52	0.70	0.59	0.35	0.94	9.43
	Trip Generation			0	1	1	1	0	1	9
	Multifamily Housing (Low-Rise) Not Close to Rail Transit[1]	6	DU							
	Trips/Unit			0.10	0.30	0.40	0.32	0.19	0.51	6.74
	Trip Generation			1	2	3	2	1	3	40
		Total Trip Generation		1	3	4	3	1	4	49
24.	**Amazon Fresh**									
	275 East Foothill Boulevard									
	Supermarket[18]	35	TSF							
	Trips/Unit			1.69	1.17	2.86	4.48	4.47	8.95	93.84
	Trip Generation			59	41	100	157	156	313	3,284
	Pass-by Trips[19]			0	0	0	(38)	(37)	(75)	(788)
	Net New Trips			59	41	100	119	119	238	2,496

LSA

Table 6-A - Cumulative Projects Trip Generation

Project No.	Land Use/Builder/Applicant/Project Name	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
25 .	**Starbucks**								
	235 East Foothill Boulevard								
	Coffee/Donut Shop with Drive-Through Window[9]	3.983 TSF							
	Trips/Unit		43.80	42.08	85.88	19.50	19.49	38.99	533.57
	Trip Generation		174	168	342	78	78	156	2,125
	Pass-by Trips[10]		(87)	(84)	(171)	(43)	(43)	(86)	(1,116)
	Net New Trips		87	84	171	35	35	70	1,009
	Gross Passenger Vehicle Trip Generation		1,137	1,408	2,545	1,498	1,104	2,602	32,561
	Pass-By Trips		(209)	(201)	(410)	(198)	(191)	(389)	(4,477)
	Net Passenger Vehicle Trip Generation		928	1,207	2,135	1,300	913	2,213	28,084
	Gross Truck Trip Generation (in PCE)		24	41	65	21	44	65	594
	Total Net Trip Generation (in PCE)		952	1,248	2,200	1,321	957	2,278	28,678

Notes:

AC = Acres; DU = Dwelling Units; STU = Students; TSF = Thousand Square Feet

[1] Rates from Institute of Transportation Engineers (ITE) Trip Generation Manual , (11th Edition) Land Use 220 - "Multifamily Housing (Low-Rise) Not Close to Rail Transit" , Setting/Location - 'General Urban/Suburban'.

[2] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 822 - "Strip Retail Plaza (<40k)" , Setting/Location - 'General Urban/Suburban'.

[3] Since pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 822 - 'Strip Retail Plaza (<40k)' do not exist. Pass-by rates were taken from Land Use 821 - 'Shopping Plaza (40-150k).' A pass-by rate of 40% was used for the p.m. peak hour. Since daily pass-by rates are not available for this land use in the ITE *Trip Generation Manual* , the p.m. pass-by rate was used as the daily pass-by rate.

[4] Trip generation taken from "Village South Specific Plan" transportation impact study by Gibson transportation consulting, inc (September 2020).

[5] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 550 - "University/College" , Setting/Location - 'General Urban/Suburban'.

[6] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 411 - "Public Park" , Setting/Location - 'General Urban/Suburban'.

[7] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 130 - "Industrial Park" , Setting/Location - 'General Urban/Suburban'.

[8] The resulting trips were converted to passenger vehicles and trucks based on the City of Fontana Truck Trip Generation Study, dated August 2003. As such, 47.2 percent of the traffic will be trucks. Trucks were further classified as 2, 3, and 4- and more axle and converted to passenger car equivalents (PCEs) using a PCE factor of 1.5 for 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for 4- and more axle trucks.

[9] Rates from ITE Trip Generation Manual, (11th Edition), Land Use 937 - "Coffee/Donut Shop with Drive-Through Window" , Setting/Location - 'General Urban/Suburban'.

[10] Since pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 937 - 'Coffee/Donut Shop with Drive-Through Window' do not exist. Pass-by rates were taken from Land Use 934 - 'Fast-Food Restaurant with Drive-Through Window.' A pass-by rate of 50% was used for the a.m. peak hour and a pass-by rate of 55% was used for the p.m. peak hour. Since daily pass-by rates are not available for this land use in the ITE *Trip Generation Manual* , the average of a.m and p.m. pass-by rate was used as the daily pass-by rate.

[11] Trip generation taken from "Foothill Boulevard Warehouse" transportation impact anaylsis by Translutions, inc (November 2019).

[12] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 934 - "Fast-Food Restaurant with Drive-Through Window" , Setting/Location - 'General Urban/Suburban'.

[13] Pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 934 - 'Fast-Food Restaurant with Drive-Through Window.' A pass-by rate of 50% was used for the a.m. peak hour and a pass-by rate of 55% was used for the p.m. peak hour. Since daily pass-by rates are not available for this land use in the ITE *Trip Generation Manual* , the average of a.m and p.m. pass-by rate was used as the daily pass-by rate.

[14] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 932 - "High-Turnover (Sit-Down) Restaurant" , Setting/Location - 'General Urban/Suburban'.

[15] Pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 932 - 'High-Turnover (Sit-Down) Restaurant.' A pass-by rate of 43% was used for the p.m. peak hour. Since daily pass-by rates are not available for this land use in the ITE *Trip Generation Manual* , the p.m. pass-by rate was used as the daily pass-by rate.

[16] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 251 - "Senior Adult Housing -Single Family " , Setting/Location - 'General Urban/Suburban'.

[17] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 210 - "Single-Family Detached Housing " , Setting/Location - 'General Urban/Suburban'.

[18] Rates from ITE *Trip Generation Manual* , (11th Edition), Land Use 850 - "Supermarket" , Setting/Location - 'General Urban/Suburban'.

[19] Pass-by rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 850 - 'Supermarket.' A pass-by rate of 24% was used for the p.m. peak hour. Since daily pass-by rates are not available for this land use in the ITE *Trip Generation Manual* , the p.m. pass-by rate was used as the daily pass-by rate.

LSA

Table 6-B - Opening Year (2024) Roadway Segment Daily Traffic Volumes

Roadway	#	Segment	Existing ADT	2022 - 2024 Growth	Cumulative Projects Trips	Opening Year (2024) Without Project ADT	Project Trips	Opening Year (2024) Plus Project ADT
Foothill Boulevard	**1**	Between Central Avenue and Project Driveway 1	24,991	1,000	2,004	27,995	602	28,597
	2	Between Project Driveway 2 and Benson Avenue	24,230	969	2,002	27,201	370	27,571

LSA

Table 6-C - Opening Year (2024) Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project					Plus Project					A.M. Peak Hour Increase in Delay (sec.)	P.M. Peak Hour Increase in Delay (sec.)	Improvement Required?
			Control	A.M. Peak Hour Delay (sec.)	A.M. Peak Hour LOS	P.M. Peak Hour Delay (sec.)	P.M. Peak Hour LOS	Control	A.M. Peak Hour Delay (sec.)	A.M. Peak Hour LOS	P.M. Peak Hour Delay (sec.)	P.M. Peak Hour LOS			
1 . Central Avenue/Foothill Boulevard	City of Upland	D	Signal	39.5	D	31.7	C	Signal	39.6	D	32.1	C	0.1	0.4	No
2 . Central Avenue/11th Street	City of Upland	D	Signal	39.9	D	35.8	D	Signal	40.3	D	36.1	D	0.4	0.3	No
3 . Project Driveway 1/Foothill Boulevard	City of Upland	D	-	*Does Not Exist*		*Does Not Exist*		OWSC	15.9	C	21.4	C	15.9	21.4	No
4 . Project Driveway 2/Foothill Boulevard	City of Upland	D	-	*Does Not Exist*		*Does Not Exist*		OWSC	9.8	A	14.2	B	9.8	14.2	No
5 . Benson Avenue/Foothill Boulevard	City of Upland	D	Signal	52.5	D	59.1	**E** *	Signal	53.0	D	59.4	**E** *	0.5	0.3	**Yes**

Notes:

OWSC = One-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 6-D - Opening Year (2024) Roadway Segment Levels of Service

Roadway Segment	Jurisdiction	Classification[1]	Existing Number of Lanes	Without Project				Plus Project				V/C Ratio Difference	Project Related Operational Deficiency[4]
				Roadway Capacity[1]	Daily Volume	V/C Ratio	LOS	Roadway Capacity[1]	Daily Volume	V/C Ratio	LOS		
Segments on Foothill Boulevard													
1 . Between Central Avenue and Project Driveway 1	City of Upland	Major Arterial	4	56,000	27,995	0.50	D	56,000	28,597	0.51	D	0.01	No
2 . Between Project Driveway 2 and Benson Avenue	City of Upland	Major Arterial	4	56,000	27,201	0.49	D	56,000	27,571	0.49	D	0.01	No

Notes:

LOS = Level of Service

* Exceeds LOS Standard

[1] Roadway classification has been obtained from the City of Upland General Plan 2035 Circulation Plan.

[2] Roadway capacitiy has been obtained from the City of Upland General Plan 2035 Circulation Plan.

[3] Operational deficiency determined based on the criteria included in the City of Upland Traffic Impact Analysis Guidelines (dated July 2020).

7.0 HORIZON YEAR ANALYSIS

7.1 HORIZON YEAR (2045) WITHOUT PROJECT TRAFFIC VOLUMES

Traffic volumes for horizon year without project conditions were developed by using forecast traffic volumes obtained from the San Bernardino Transportation Analysis Model (SBTAM). The methodology to develop horizon year without project volumes at study area intersections and roadway segments is consistent with the San Bernardino County Transportation Authority (SBCTA) procedures for post-processing of modeled traffic volumes.

Figure 7-1 illustrates horizon year without project peak hour traffic volumes at study intersections. Table 7-A summarizes horizon year without project daily traffic volumes at study area roadway segments.

7.2 HORIZON YEAR (2045) PLUS PROJECT TRAFFIC VOLUMES

Horizon year plus project traffic volumes were developed by adding proposed project traffic to the horizon year without project traffic volumes.

Figure 7-2 illustrates horizon year plus project peak hour traffic volumes at study intersections. Previously referenced Table 7-A summarizes horizon year plus project daily traffic volumes at study area roadway segments.

Detailed volume development worksheets are included in Appendix C.

7.3 HORIZON YEAR (2045) WITHOUT PROJECT LEVELS OF SERVICE

7.3.1 Study Intersections

An intersection LOS analysis was conducted for horizon year without project conditions using the methodologies previously discussed. Table 7-B summarizes the results of the analysis and shows that the following intersection is forecast to operate at a deficient LOS under horizon year without project conditions:

5. Benson Avenue/Foothill Boulevard (both a.m. and p.m. peak hours).

All other intersections are forecast to operate at a satisfactory LOS.

7.3.2 Roadway Segments

A roadway segment LOS analysis was conducted for horizon year without project conditions using the methodologies previously discussed. Table 7-C summarizes the results of this analysis and shows that all roadway segments are forecast to operate at a satisfactory LOS.

7.4 HORIZON YEAR (2045) PLUS PROJECT LEVELS OF SERVICE

7.4.1 Study Intersections

An intersection LOS analysis was conducted for horizon year plus project conditions using the methodologies previously discussed. Previously referenced Table 7-B summarizes the results of the

analysis and shows that the following intersection is forecast to operate at a deficient LOS under horizon year plus project conditions:

5. Benson Avenue/Foothill Boulevard (both a.m. and p.m. peak hours).

The intersection is forecast to operate at a deficient LOS even under horizon year without project conditions. Therefore, the project would contribute to the forecast deficiency at this intersection.

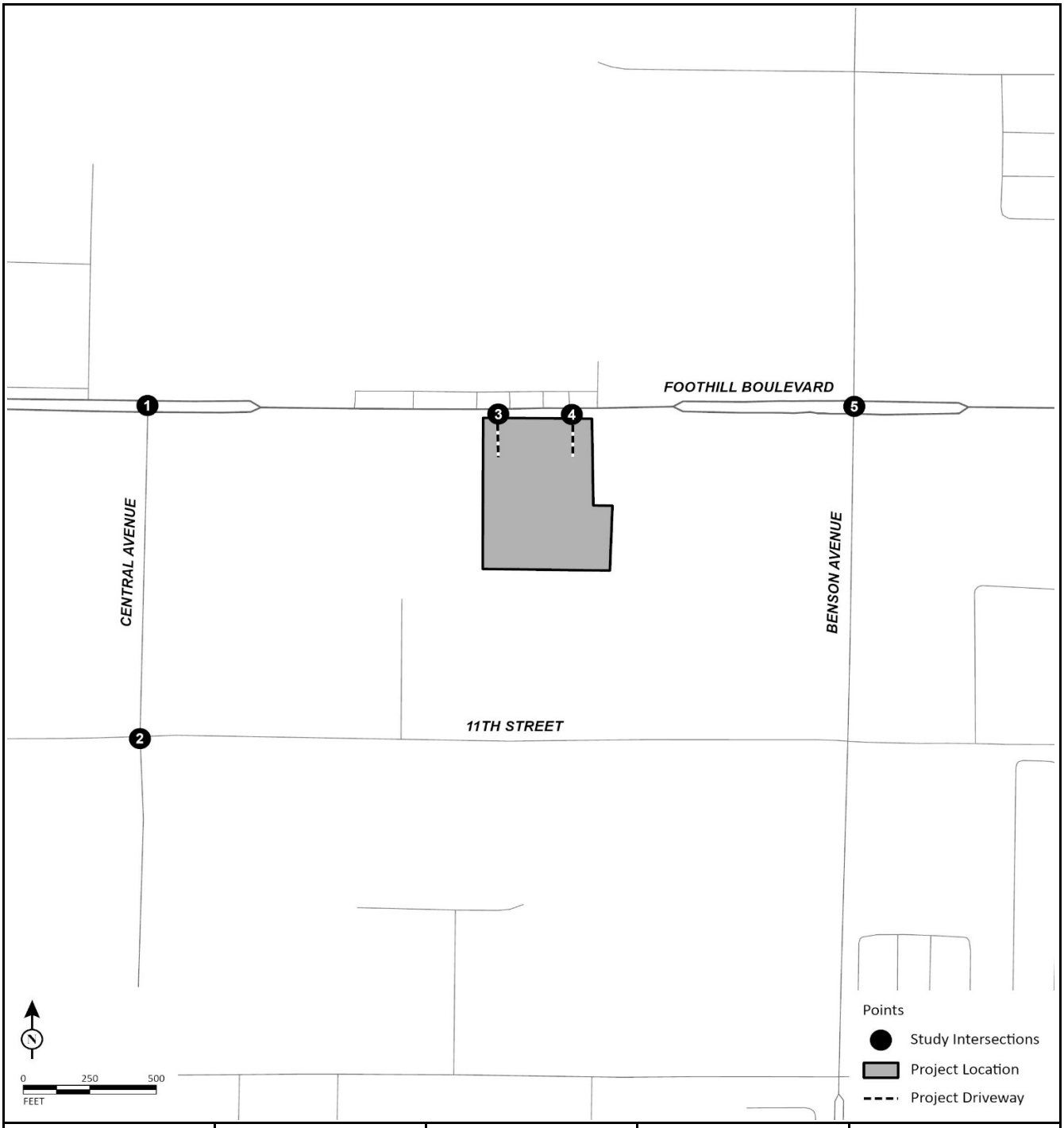
All other intersections are forecast to operate at a satisfactory LOS under horizon year plus project conditions. Detailed LOS worksheets are included in Appendix D.

7.4.2 Roadway Segments

A roadway segment LOS analysis was conducted for horizon year plus project conditions using the methodologies previously discussed. Previously referenced Table 7-C summarizes the results of this analysis and shows that all roadway segments are forecast to operate at a satisfactory LOS under horizon year plus project conditions.

7.5 LIST OF CHAPTER 7.0 FIGURES AND TABLES

- Figure 7-1: Horizon Year (2045) without Project Peak Hour Traffic Volumes
- Figure 7-2: Horizon Year (2045) plus Project Peak Hour Traffic Volumes
- Table 7-A: Horizon Year (2045) Roadway Segment Daily Traffic Volumes
- Table 7-B: Horizon Year (2045) Intersection Levels of Service
- Table 7-C: Horizon Year (2045) Roadway Segment Levels of Service



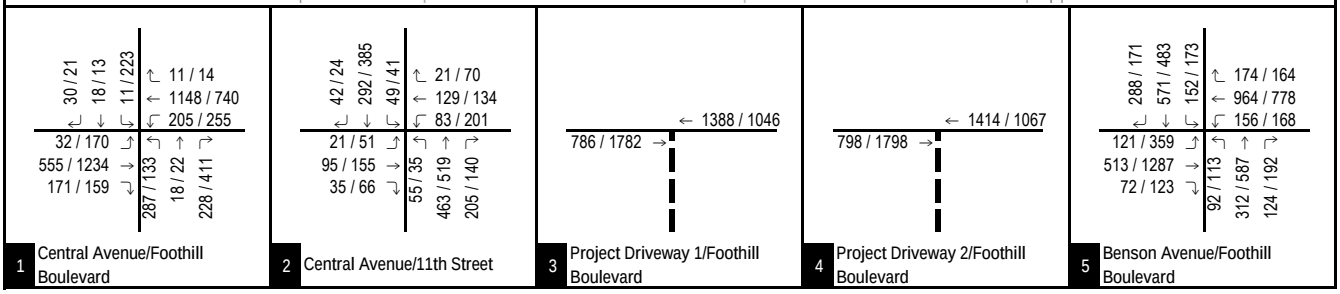


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FIGURE 7-1

XXXX / YYYY
AM / PM Peak Hour PCE Traffic Volumes
---- Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Horizon Year (2045) without Project Peak Hour Traffic Volumes

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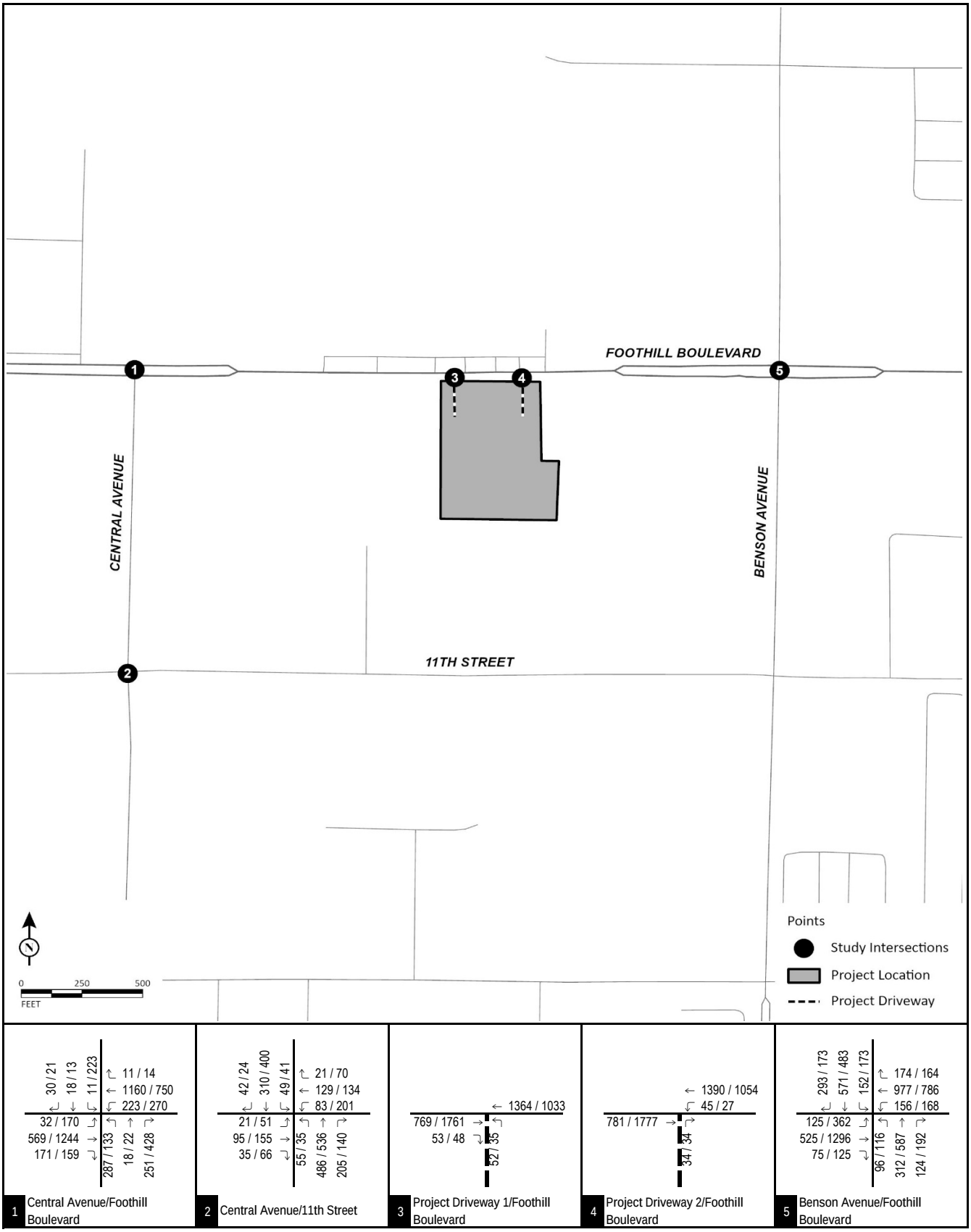

LSA

FIGURE 7-2

XXXX / YYYY
AM / PM Peak Hour PCE Traffic Volumes
---- Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Horizon Year (2045) plus Project Peak Hour Traffic Volumes

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LSA

Table 7-A - Horizon Year (2045) Roadway Segment Daily Traffic Volumes

Roadway	#	Segment	Horizon Year (2045) Without Project ADT	Project Trips	Horizon Year (2045) Plus Project ADT
Foothill Boulevard	**1**	Between Central Avenue and Project Driveway 1	31,935	602	32,537
	2	Between Project Driveway 2 and Benson Avenue	31,174	370	31,544

LSA

Table 7-B - Horizon Year (2045) Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project					Plus Project					A.M. Peak Hour Increase in Delay (sec.)	P.M. Peak Hour Increase in Delay (sec.)	Improvement Required?
			Control	A.M. Peak Hour Delay (sec.)	A.M. Peak Hour LOS	P.M. Peak Hour Delay (sec.)	P.M. Peak Hour LOS	Control	A.M. Peak Hour Delay (sec.)	A.M. Peak Hour LOS	P.M. Peak Hour Delay (sec.)	P.M. Peak Hour LOS			
1 . Central Avenue/Foothill Boulevard	City of Upland	D	Signal	39.6	D	49.7	D	Signal	39.7	D	50.2	D	0.1	0.5	No
2 . Central Avenue/11th Street	City of Upland	D	Signal	42.2	D	35.9	D	Signal	43.0	D	36.4	D	0.8	0.5	No
3 . Project Driveway 1/Foothill Boulevard	City of Upland	D	-	*Does Not Exist*		*Does Not Exist*		OWSC	17.9	C	25.5	D	17.9	25.5	No
4 . Project Driveway 2/Foothill Boulevard	City of Upland	D	-	*Does Not Exist*		*Does Not Exist*		OWSC	9.8	A	16.4	C	9.8	16.4	No
5 . Benson Avenue/Foothill Boulevard	City of Upland	D	Signal	59.4	**E** *	76.4	**E** *	Signal	60.6	**E** *	77.3	**E** *	1.2	0.9	**Yes**

Notes:

OWSC = One-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

LSA

Table 7-C - Horizon Year (2045) Roadway Segment Levels of Service

Roadway Segment	Jurisdiction	Classification[1]	Existing Number of Lanes	Without Project				Plus Project				V/C Ratio Difference	Project Related Operational Deficiency[4]
				Roadway Capacity[1]	Daily Volume	V/C Ratio	LOS	Roadway Capacity[1]	Daily Volume	V/C Ratio	LOS		
Segments on Foothill Boulevard													
1 . Between Central Avenue and Project Driveway 1	City of Upland	Major Arterial	4	56,000	31,935	0.57	D	56,000	32,537	0.58	D	0.01	No
2 . Between Project Driveway 2 and Benson Avenue	City of Upland	Major Arterial	4	56,000	31,174	0.56	D	56,000	31,544	0.56	D	0.01	No

Notes:

LOS = Level of Service

* Exceeds LOS Standard

[1] Roadway classification has been obtained from the City of Upland General Plan 2035 Circulation Plan.

[2] Roadway capacitiy has been obtained from the City of Upland General Plan 2035 Circulation Plan.

[3] Operational deficiency determined based on the criteria included in the City of Upland Traffic Impact Analysis Guidelines (dated July 2020).

8.0 PROJECT DRIVEWAY QUEUE LENGTH ANALYSIS

A queue length analysis for the peak hours for left turn-in vehicles was requested by City staff during the scoping agreement process to ensure that adequate queuing is provided at project driveways. In case queuing deficiencies are identified, the project would need to alleviate potential queuing issues. Left turn-in movements for project traffic at both project driveways would occur using the existing two-way-left-turn median along the project frontage. Storage lengths for these left-turn ingresses at both project driveways were determined using the distance from the respective driveways to the adjacent plaza driveways north of Foothill Boulevard. As such, the available left-turn pocket storage length is approximately 50 feet for both project driveways.

Table 8-A lists the available turn-pocket storage lengths and summarizes the 95th percentile back-of-queue lengths at the two project driveways under opening year and horizon year plus project conditions. Intersection queues at stop-controlled intersections were reported from SimTraffic.

As shown in Table 8-A, queues for left turn-in movements at both project driveways are projected to be less than the available turn-pocket storage length under a.m. and p.m. peak hours for both opening year and horizon year plus project scenarios.

8.1 LIST OF CHAPTER 8.0 TABLES

- Table 8-A: Project Driveway Queue Length Analysis

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Table 8-A - Project Driveway Queue Length Analysis

Intersection	Movement	Storage Length[1]	Existing		Opening Year (2024)				Horizon Year (2045)			
			Without Project[2]		Without Project[3]		Plus Project[3]		Without Project[3]		Plus Project[3]	
			AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour	AM Peak Hour	PM Peak Hour
3. Project Driveway 1/Foothill Boulevard OWSC	**WBL**	50	-	-	-	-	0	0	-	-	0	0
4. Project Driveway 2/Foothill Boulevard OWSC	**WBL**	50	-	-	-	-	30	34	-	-	30	28

Notes:
OWSC = One-Way Stop Control
EB = Eastbound; WB = Westbound; NB = Northbound; SB = Southbound
L = Left; T = Through; R = Right
Bold = Queue exceeds available storage.

[1] Storage length for all movements are obtained from Google Earth measurements.

[2] All lengths are shown in feet (ft)

[3] All queues reported are 95th percentile queues. Queues for signalized intersections have been reported from Synchro, while queues for unsignalized intersections have been reported from SimTraffic.

9.0 SITE ACCESS ANALYSIS

9.1 SIGHT DISTANCE ANALYSIS

Per request of City staff, a sight distance analysis was conducted at the project driveways along Foothill Boulevard to evaluate safe access in and out of the project. Sight distance is the length of the visible roadway a driver can see approaching vehicles before their line of sight is blocked by any object. For purposes of this analysis, both the stopping sight distance and corner sight distance have been evaluated. That is because those are the two sight distance issues that would affect safe maneuver of ingress/egress traffic from the project driveway.

According to the Caltrans Highway Design Manual (HDM) (dated July 2020), the stopping sight distance is the minimum sight distance along a roadway required to allow a driver to decrease their speed from the design speed to a complete stop. The corner sight distance is the minimum sight distance in which a driver at a stop-controlled approach can see oncoming traffic on the major street to safely maneuver onto the roadway.

The stopping sight distance was evaluated on the street abutting the project (i.e., Foothill Boulevard). The posted speed limit on Foothill Boulevard is 45 mph. For purposes of this analysis, the posted speed limit has been considered as the design speed. As stated in Table 201.1 of the HDM, the minimum stopping distance is 360 feet for a design speed of 45 mph. Therefore, the minimum stopping sight distance for the project driveways have been considered as 360 feet.

As for corner sight distance, Section 405.1 of the HDM states that corner sight distance requirements are not applicable for urban driveways unless signalized. However, as a conservative approach, a corner sight distance was also evaluated for the project driveways. At the project driveways, the minimum corner sight distance was based on design speed, time gap and type of vehicles from the minor road (project driveways) to enter the major road (Foothill Boulevard). As a conservative measure, corner sight distances were calculated using metrics for combination trucks. Based on the requirements established in the HDM, it was determined that a minimum corner sight distance of 855 feet would be required for left turns coming out of Project Driveway 1 and a minimum corner sight distance of 745 feet would be required for right turns coming out of Project Driveway 2.

Since the corner sight distance required at the project driveways would be greater than the stopping sight distance (855 feet compared to 360 feet), sight triangle figures were created using corner sight distance as a conservative approach. Project Driveway 1 will provide adequate sight distance for left-turn maneuvers as shown by the sight distance triangles illustrated in Figure 9-1. Project Driveway 2 will provide adequate sight distance for right-turn maneuvers as shown by the sight distance triangle illustrated in Figure 9-2.

9.2 BICYCLE, PEDESTRIAN, AND TRANSIT ACCESSIBILITY

9.2.1 Bicycle Accessibility

As part of the City's Bikeway Network, Class II bike routes have been added to both directions on Benson Avenue north of Foothill Boulevard and to the westbound direction of Foothill Boulevard between Lowe's driveway and Benson Avenue within the study area. Proposed future Class II bike routes will be added along the eastbound and westbound directions of Foothill Boulevard within the study area. Since there are no existing bike facilities along Foothill Boulevard, bicyclists currently will not be able to access the project site. Once the proposed bicycle facilities have been added to the bikeway network, it is anticipated that the majority of bicyclists will access the project site from Foothill Boulevard.

9.2.2 Pedestrian Accessibility

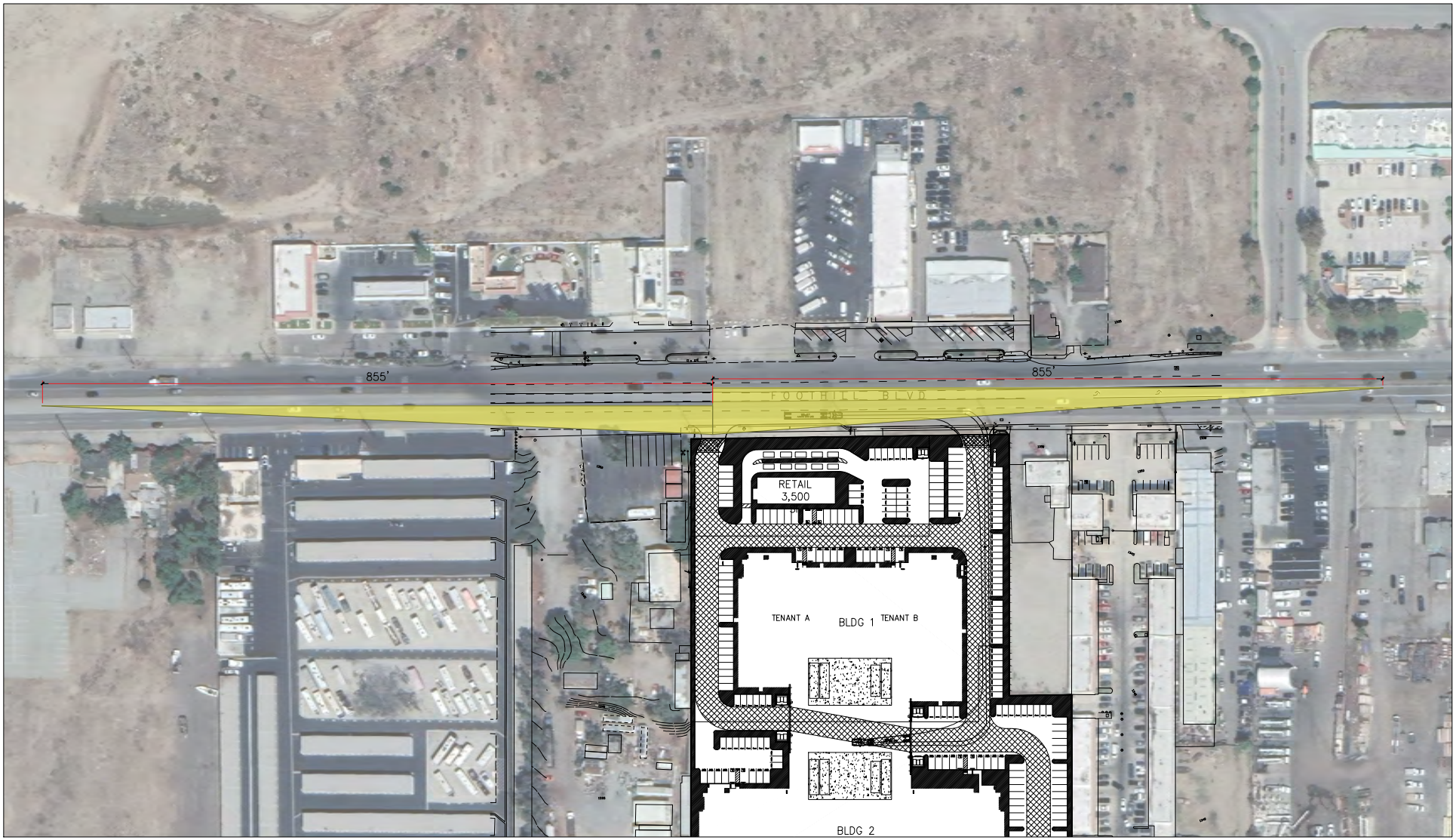
Paved sidewalks are provided on both sides of Central Avenue, Foothill Boulevard east of Lowe's driveway, 11th Street, and Benson Avenue. There are no existing trails or paved sidewalks on the eastbound direction of Foothill Boulevard directly adjacent to the project site. Per the conceptual site plan previously illustrated in Figure 2-2, a sidewalk will be added along the project frontage on Foothill Boulevard. As such, pedestrians will be able to safely access the project site from Foothill Boulevard.

9.2.3 Transit Accessibility

Omnitrans bus route 66 serves the study area with stops along Central Avenue and Foothill Boulevard near the project site. This route provides connections along Foothill Boulevard and connects the Montclair Transit Center and the Fontana Metrolink Transit Center. There is an existing bus stop located on the westbound direction of Foothill Boulevard approximately 880 feet east of the project site and another stop located on the eastbound direction of Foothill Boulevard Avenue approximately 1,050 feet west of the project site.

9.3 LIST OF CHAPTER 9.0 FIGURES

- Figure 9-1: Corner Sight Distance at Project Driveway 1
- Figure 9-2: Corner Sight Distance at Project Driveway 2



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Sight Distance Triangle

Figure 9-1

West Foothill Development Project
Traffic Impact Analysis

Corner Sight Distance at Project Driveway 1

SOURCE: HPA Architecture, February 2023

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Sight Distance Triangle

Figure 9-2

West Foothill Development Project
Traffic Impact Analysis

Corner Sight Distance at Project Driveway 2

SOURCE: HPA Architecture, February 2023

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10.0 CEQA ASSESSMENT – VEHICLE MILES TRAVELED ANALYSIS AND ACTIVE TRANSPORTATION AND PUBLIC TRANSIT ANALYSIS

10.1 VEHICLE MILES TRAVELED ANALYSIS

On December 28, 2018, the California Office of Administrative Law cleared the revised CEQA Guidelines for use. Among the changes to the CEQA Guidelines was the removal of vehicle delay and LOS from consideration under CEQA. With the adopted CEQA Guidelines, transportation impacts are to be evaluated based on a project's effect on VMT.

The City's TIA Guidelines includes screening criteria, VMT analysis methodology, VMT impact thresholds, and VMT mitigation measures. Therefore, the City's TIA Guidelines were used in the evaluation of the project's VMT analysis.

The City's TIA Guidelines do not recommend any VMT analysis methodology for mixed-use projects. However, as per the Governor's Office of Planning and Research (OPR) *Technical Advisory*, dated December 2018, mixed-use projects can be evaluated separately for each component of the project. As per the City's TIA Guidelines, restaurants less than 50,000 sf may be considered as local-serving and may be screened from a VMT analysis. Additionally, warehousing less than 143,000 sf may also be screened from a VMT analysis. Therefore, as per the City's TIA Guidelines, both the restaurant and warehousing components of this project are presumed to have less than significant VMT impact and are screened from a VMT analysis.

10.2 ACTIVE TRANSPORTATION AND PUBLIC TRANSIT ANALYSIS

According to the City's TIA Guidelines, a significant impact occurs when a project conflicts with adopted plans, policies, or programs regarding active transportation or public transit facilities, or otherwise decreases the performance or safety of such facilities.

Based on the City's *Bicycle and Pedestrian Master Plan*, at present, Class II bike routes have been added to both directions of Benson Avenue north of Foothill Boulevard and to the westbound direction of Foothill Boulevard between Lowe's driveway and Benson Avenue within the study area. Proposed future Class II bike routes will be added along the eastbound and westbound directions of Foothill Boulevard within the study area. Proposed future Class III bike routes will be added along the northbound and southbound directions of Benson Avenue south of Foothill Boulevard within the study area. As such, the project would not decrease the performance or safety of any existing or proposed bicycle facility.

According to the City of Upland *General Plan Circulation Element*, sidewalks are generally provided on both sides of the streets. Additionally, standard paved trails and non-standard unpaved trails are frequently used by bicyclists and pedestrians in the City. According to the City's General Plan, there is a proposed Priority II or III Trail planned to be placed along Benson Avenue just east of the project site. Although there are no current trails within the study area, paved sidewalks are provided on both sides of Central Avenue, Foothill Boulevard east of Lowe's driveway, 11th Street, and Benson Avenue. The project would not affect any existing sidewalks. As such, the project would not decrease the performance or safety of any existing or proposed pedestrian facility.

Omnitrans bus Route 66 currently operates within the study area. Route 66 has stops on Central Avenue and Foothill Boulevard within the study area. This bus route travels west and eastbound, and connects the Montclair Transit Center on the west end and the Fontana Metrolink Transit Center on the east end. There is an existing bus stop located on the westbound direction of Foothill Boulevard at the intersection of Benson Avenue and Foothill Boulevard and another stop located on the eastbound direction of Foothill Boulevard Avenue near the intersection Central Avenue and Foothill Boulevard.

The project does not conflict with any existing or proposed bicycle, pedestrian, or public transit facilities. Therefore, it can be considered to conform to all adopted policies, plans, or programs concerning these facilities and would not have a significant impact.

11.0 CIRCULATION IMPROVEMENTS AND FUNDING SOURCES

11.1 RECOMMENDED IMPROVEMENTS

Based on the results of the LOS analysis, improvements have been recommended at study intersections where the project is forecast to create or contribute to operational deficiencies under opening year and horizon year conditions where feasible improvements could be identified. Table 11-A summarizes the recommended improvements for study intersections for all analysis scenarios. Tables 11-B and 11-C summarize the post-improvement intersection levels of service under opening year and horizon year conditions, respectively.

The intersection of Benson Avenue/Foothill Boulevard is forecast to operate at a satisfactory LOS under the opening year and horizon year with the recommended improvements of optimizing the cycle length. However, currently signal timings may be coordinated throughout the entire length of Foothill Boulevard within the City. Therefore, any changes in the signal timing for a single intersection as part of recommended improvement will require coordination with City staff.

11.2 FUNDING SOURCES AND MECHANISMS

Where there is a funding mechanism (fee program) for the recommended improvements, payment into the fee program may be considered sufficient project obligation to alleviate project-related operational deficiencies. At study intersections where the project adds to or creates a forecast deficiency and there is no funding mechanism in place, the project is responsible for its fair-share payment toward the implementation of the improvements.

11.2.1 SBCTA Nexus Study

The SBCTA Nexus Study identifies the fair share contributions from new development for regional transportation improvements. This program identifies a Nexus Study Network, representing regional roadways in the urbanized areas of San Bernardino County. Roadway improvement projects must be located on this network for their costs to be included in the Nexus Study and to be eligible to receive or expend fair share contributions.

11.2.2 Project Fair Share

In the absence of a fee program, the project shall pay its fair share of the cost required to offset operational deficiencies. Since the recommended improvements at the intersection of Benson Avenue/Foothill Boulevard are not covered under the Nexus Study or any other fee program, the project's fair share has been calculated based on project traffic as a percentage of total growth from existing to cumulative conditions. Previously referenced Table 11-A summarizes the project's fair share at the intersections where the project is forecasted to create a deficiency or add to an existing deficiency.

11.3 LIST OF CHAPTER 11.0 TABLES

- Table 11-A: Recommended Improvements for Intersections, Funding Mechanism, and Fair Share
- Table 11-B: Opening Year (2024) plus Project with Recommended Improvements Intersection Levels of Service

- Table 11-C: Horizon Year (2045) plus Project with Recommended Improvements Intersection Levels of Service

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Table 11-A - Recommended Improvements for Intersections, Funding Mechanism, and Fair Share

Intersection	Opening Year (2025) Plus Project Improvements	Horizon Year (2045) Plus Project Improvements	Funding Mechanism	Improvements Covered by Nexus Study	Improvements Covered by Fair Share	Fair Share Percentage
5 . Benson Avenue/Foothill Boulevard	Optimize cycle length (p.m. peak hour only)	Optimize cycle length (a.m. and p.m. peak hour)	Fair Share	-	Optimize cycle length.	4.27%

Notes:

[1] Project Fair Share Percentage is the highest fair share value of the AM and PM peak hour when both peak hours require improvements, or only in the peak hour that require improvements.

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Table 11-B - Opening Year (2024) plus Project with Recommended Improvements Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project Without Improvements					Plus Project Without Improvements					Plus Project With Improvements				
				A.M. Peak Hour		P.M. Peak Hour			A.M. Peak Hour		P.M. Peak Hour			A.M. Peak Hour		P.M. Peak Hour	
			Control	Delay (sec.)	LOS	Delay (sec.)	LOS	Control	Delay (sec.)	LOS	Delay (sec.)	LOS	Control	Delay (sec.)	LOS	Delay (sec.)	LOS
5 . Benson Avenue/Foothill Boulevard	City of Upland	D	Signal	52.5	D	59.1	E *	Signal	53.0	D	59.4	E *	Signal	52.5	D	45.7	D

Notes:

OWSC = One-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

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Table 11-C - Horizon Year (2045) plus Project with Recommended Improvements Intersection Levels of Service

Intersection	Jurisdiction	LOS Standard	Without Project Without Improvements					Plus Project Without Improvements					Plus Project With Improvements				
				A.M. Peak Hour		P.M. Peak Hour			A.M. Peak Hour		P.M. Peak Hour			A.M. Peak Hour		P.M. Peak Hour	
			Control	Delay (sec.)	LOS	Delay (sec.)	LOS	Control	Delay (sec.)	LOS	Delay (sec.)	LOS	Control	Delay (sec.)	LOS	Delay (sec.)	LOS
5 . Benson Avenue/Foothill Boulevard	City of Upland	D	Signal	59.4	E *	76.4	E *	Signal	60.6	E *	77.3	E *	Signal	42.3	D	50.4	D

Notes:

OWSC = One-Way Stop Control; LOS = Level of Service

Delay = Average control delay in seconds (For OWSC/TWSC intersections, reported delay is for worst-case movement).

* Exceeds LOS Standard

APPENDIX A

SCOPING AGREEMENT

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

November 2, 2022

Mr. Alan French
Principal Engineer
City of Upland
460 N. Euclid Avenue
Upland, California 91786

Subject: Scope of Work for the West Foothill Development Project Traffic Impact Analysis (LSA Project No. MVP2201)

Dear Alan:

LSA will be preparing a Traffic Impact Analysis (TIA) for the West Foothill Development Project (project) located at 1760 West Foothill Boulevard in the City of Upland (City). The project site is located between Central Avenue and Benson Avenue, bound by Foothill Boulevard to the north and Upland Sports Arena to the south, respectively. Industrial uses are located to the west of the site, while the Goodwill Industries store and light industrial uses are located to the east. Currently, there are some existing structures on the project site. However, they will be demolished with the implementation of the project. Figure 1 (all figures, tables, and appendices attached) illustrates the regional and project location.

The proposed project will include two warehouse buildings with a combined area of 101,092 square feet (sf) and a 3,570 sf fast-food restaurant with drive-through window. Access to the project site will be provided via two driveways on Foothill Boulevard. For purposes of this analysis, both driveways have been considered as full-access driveways. Figure 2 illustrates the conceptual site plan for the project.

LSA anticipates that the following scope of work will be required to prepare the TIA for the proposed project.

SCOPE OF WORK

The scope of work has been prepared as per the City of Upland *Traffic Impact Analysis Guidelines* (TIA Guidelines), dated July 2020. As per the City's TIA Guidelines, the TIA should include two components – 1) a Level of Service (LOS) Analysis for General Plan consistency purposes and 2) a Vehicle Miles Traveled (VMT) Analysis and an Active Transportation and Public Transit Analysis for California Environmental Quality Act (CEQA) requirements.

1500 Iowa Avenue, Suite 200, Riverside, California 92507 951.781.9310 www.lsa.net

LEVEL OF SERVICE ANALYSIS

Study Area

Foothill Boulevard is a part of the roadway system included in the San Bernardino County Transportation Authority (SBCTA) *Congestion Management Program (CMP),* dated June 2016. As per the City's TIA guidelines, at a minimum, the study area must include all freeway links with 100 or more two-way peak-hour project trips and other CMP roadways with 50 or more two-way peak-hour project trips within five miles of the project site. As such, the following intersections and roadway segments were included in the TIA:

Study Intersections:

1. Central Avenue/Foothill Boulevard;
2. Central Avenue/11th Street;
3. Project Driveway 1/Foothill Boulevard;
4. Project Driveway 2/Foothill Boulevard; and
5. Benson Avenue/Foothill Boulevard.

Figure 3 illustrates the study area intersections.

Roadway Segments:

1. Foothill Boulevard, between Central Avenue and Project Driveway 1; and
2. Foothill Boulevard, between Project Driveway 2 and Benson Avenue.

Traffic operations at all study intersections will be analyzed during the weekday a.m. and p.m. peak hours. The a.m. peak hour is defined as the one hour period of the highest traffic volume occurring between 7:00 and 9:00 a.m. while the p.m. peak hour is defined as the one hour period of the highest traffic volume occurring between 4:00 and 6:00 p.m. Intersection LOS will be calculated using the *Highway Capacity Manual* 6th Edition (HCM 6) analysis methodologies and by using the Synchro 11 software. Traffic operations at roadway segments will be analyzed based on volume-to-capacity (V/C) ratios.

Project Trip Generation, Trip Distribution, and Trip Assignment

The trip generation for the proposed project was developed as follows:

- Warehouse – The trip generation for this component was developed using rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition) for Land Use 150 – "Warehousing." The resulting trips were converted to passenger vehicles and trucks based on South Coast Air Quality Management District (SCAQMD) recommendations. As such, 31 percent of the warehouse trips will be trucks, including 6.8% 2-axle trucks, 5.5% 3-axle trucks, and 18.7% 4 or more axle trucks. Finally, as per the City's TIA Guidelines, all truck trips were converted to passenger car equivalent (PCE) trips using PCE factors of 1.5 for 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for 4 or more axle trucks.

- Fast-Food Restaurant – The trip generation for this component was developed using rates from the ITE *Trip Generation Manual* (11th Edition) for Land Use 934 – "Fast-Food Restaurant with Drive-Through Window." For the fast-food restaurant, a certain percentage of trips will be pass-by trips. A pass-by trip is a trip where an intermediate stop is made on the way from the origin to the primary destination of the trip without making a route diversion. It is not actually a "new" trip added to the surrounding circulation system. Pass-by rates for this land use were obtained from the ITE *Trip Generation Manual* (11th Edition). Pass-by trips were subtracted from the total trips for the fast-food restaurant to obtain the net trips.

The total PCE trips for the warehouse were added to the net trips for the fast-food restaurant to obtain the total net PCE trip generation for the project. As a conservative approach, no internal capture or trip credits from existing uses were considered. The project trip generation is summarized in Table A. As shown in Table A, the project is anticipated to generate 1,050 total net daily PCE trips, with 104 net PCE trips occurring during the a.m. peak hour and 79 net PCE trips occurring during the p.m. peak hour.

The project trip distribution patterns were derived from the select zone model runs obtained from the San Bernardino Transportation Analysis Model (SBTAM). Because the project has two different land uses, a separate distribution was prepared for each land use. Additionally, since trucks typically have different travel patterns than passenger vehicles, separate trip distributions were developed for passenger vehicles and trucks for the warehousing component of the project. The select zone model plots are included in Appendix A. Figure 4 illustrates the trip distribution for the fast-food restaurant. Figure 5 illustrates the passenger vehicle trip distribution for the warehouse. Figure 6 illustrates the truck trip distribution for the warehouse. The project trip assignment at the study intersections is the product of the project trip generation and the corresponding trip distribution percentages. Figure 7 illustrates the net trip assignment for the fast-food restaurant. Figures 8 and 9 respectively illustrate the passenger vehicle and truck trip distributions for the warehouse. Figure 9 illustrates the total project net trip assignment.

Analysis Scenarios

The TIA will be prepared based on consultation with City staff to meet the requirements of the City. The TIA will examine traffic operations at the study area intersections and roadway segments under the following scenarios:

- Existing Conditions;
- Project Opening Year without Project Conditions;
- Project Opening Year plus Project Conditions;
- Horizon Year without Project Conditions; and
- Horizon Year plus Project Conditions.

The project opening year will be year 2024. The horizon year analysis will be performed for year 2045.

Volume Development and Analysis Methodology

Traffic volumes for existing conditions are typically developed using existing count data collected at study area intersections and roadway segments. Despite the ongoing COVID-19 pandemic, LSA anticipates that at present, traffic is operating near or at pre-pandemic levels, and therefore, adjustments to traffic counts will not be required. However, in case City staff requires adjustments to existing traffic counts, appropriate adjustments will be made by obtaining historical counts at study area intersections and roadway segments.

Traffic volumes for project opening year without project conditions will be developed by applying an ambient growth rate to existing traffic volumes and adding traffic volumes from approved and pending projects in the vicinity of the proposed project. LSA contacted City staff and adjacent jurisdictions of Ontario, Montclair, and Claremont for information regarding cumulative projects. Cumulative projects to be included in this study are summarized in Table B. Locations of cumulative projects are illustrated in Figure 11.

Traffic volumes for horizon year without project conditions will be developed by using forecast traffic volumes obtained from the SBTAM. The methodology to develop horizon year without project traffic volumes at study area intersections and roadway segments will be consistent with the SBCTA procedures for post-processing of modeled traffic volumes.

Existing, project opening year, and horizon year plus project traffic volumes will be developed by adding project traffic to the traffic volumes for the corresponding without project scenarios.

Analysis of Traffic Operations and Recommended Circulation Improvements

Levels of service without the project will be compared with levels of service plus the project for all analysis scenarios to determine operational deficiencies based on the LOS standards and operational deficiency criteria as applicable for the City. Furthermore, necessary improvements will be recommended to offset any operational deficiencies. Improvements may include addition of intersection turn lanes, segment lane additions, signalization, etc. The LOS with the proposed improvements will be calculated and summarized, along with a comparison of the LOS without improvements.

Signal Warrant Analysis (if Required)

A signal warrant analysis would be conducted at unsignalized intersections if a signal is recommended as an improvement. Peak hour approach volumes for study intersections will be examined to determine whether signalization may be warranted per the criteria defined in the California supplement of the *Manual on Uniform Traffic Control Devices* (CA-MUTCD).

Queue Length Analysis and Conceptual Striping Plan

A queue length analysis will be conducted for the peak hours for left turn in vehicles on Foothill Boulevard. The queueing analysis will be performed using Synchro 11 software. A conceptual

striping plan will be provided along the two project driveways to support the LOS and queue length analyses. The conceptual striping plan will be for Foothill Boulevard covering the segment between Central Avenue and Benson Avenue.

Sight Distance Analysis

A sight distance analysis will be conducted for the project driveways. This analysis will evaluate the sight distance and other potential safety issues pertaining to left-turn movements out of the project driveways.

Fair-Share Contributions (if Required)

A fair share percentage will be calculated for intersection and roadway segment improvements recommended in the TIA that are not included in the City's Development Fee (DIF) program, the SBCTA Nexus Study Fee program, or any other funding program. The percentage of fair share for the project will be calculated at each location using the total trips generated by the project divided by the total "new" traffic, which is the net increase in traffic volumes from existing to horizon year conditions.

CEQA ASSESSMENT - VEHICLE MILES TRAVELED ANALYSIS

The TIA will include a Vehicle Miles Traveled (VMT) analysis to meet CEQA requirements. The project VMT analysis will be prepared consistent with the City's TIA Guidelines. The City's TIA Guidelines do not recommend any VMT analysis methodology for mixed-use projects. However, as per the Governor's Office of Planning and Research (OPR) *Technical Advisory,* dated December 2018, mixed-use projects can be evaluated separately for each component of the project. As per the City's TIA Guidelines, restaurants less than 50,000 sf may be considered as local-serving and may be screened from a VMT analysis. Additionally, warehousing less than 143,000 sf may also be screened from a VMT analysis. Therefore, as per the City's TIA Guidelines, both the restaurant and warehousing components of the project may be presumed to have a less than significant VMT impact and may be screened from a VMT analysis.

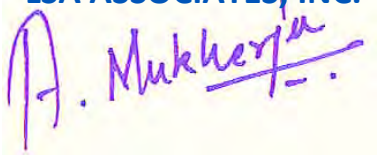
CEQA ASSESSMENT – ACTIVE TRANSPORTATION AND PUBLIC TRANSIT ANALYSIS

The TIA will include an analysis of potential project impacts on public transit, bicycle, and pedestrian facilities. Significant impacts would be determined based on whether the project conflicts with adopted policies, plans, or programs for these facilities, or whether the project decreases the performance or safety of these facilities.

Should you have any questions, please do not hesitate to contact me at (951) 781-9310 or email me at Ambarish.Mukherjee@lsa.net.

Sincerely,

LSA ASSOCIATES, INC.



Ambarish Mukherjee, AICP, PE
Principal

ATTACHMENTS

Figures

Figure 1: Regional and Project Location
Figure 2: Conceptual Site Plan
Figure 3: Study Area Intersections
Figure 4: Project Trip Distribution – Fast-Food Restaurant
Figure 5: Project Trip Distribution – Warehouse (Passenger Vehicles)
Figure 6: Project Trip Distribution – Warehouse (Trucks)
Figure 7: Project Net Trip Assignment – Fast-Food Restaurant
Figure 8: Project Trip Assignment – Warehouse (Passenger Vehicles)
Figure 9: Project Trip Assignment – Warehouse (Trucks)
Figure 10: Total Project Net Trip Assignment
Figure 11: Cumulative Project Locations

Tables

Table A: Project Trip Generation
Table B: Cumulative Projects

Appendices

Appendix A: SBTAM Select Zone Model Plots

FIGURES

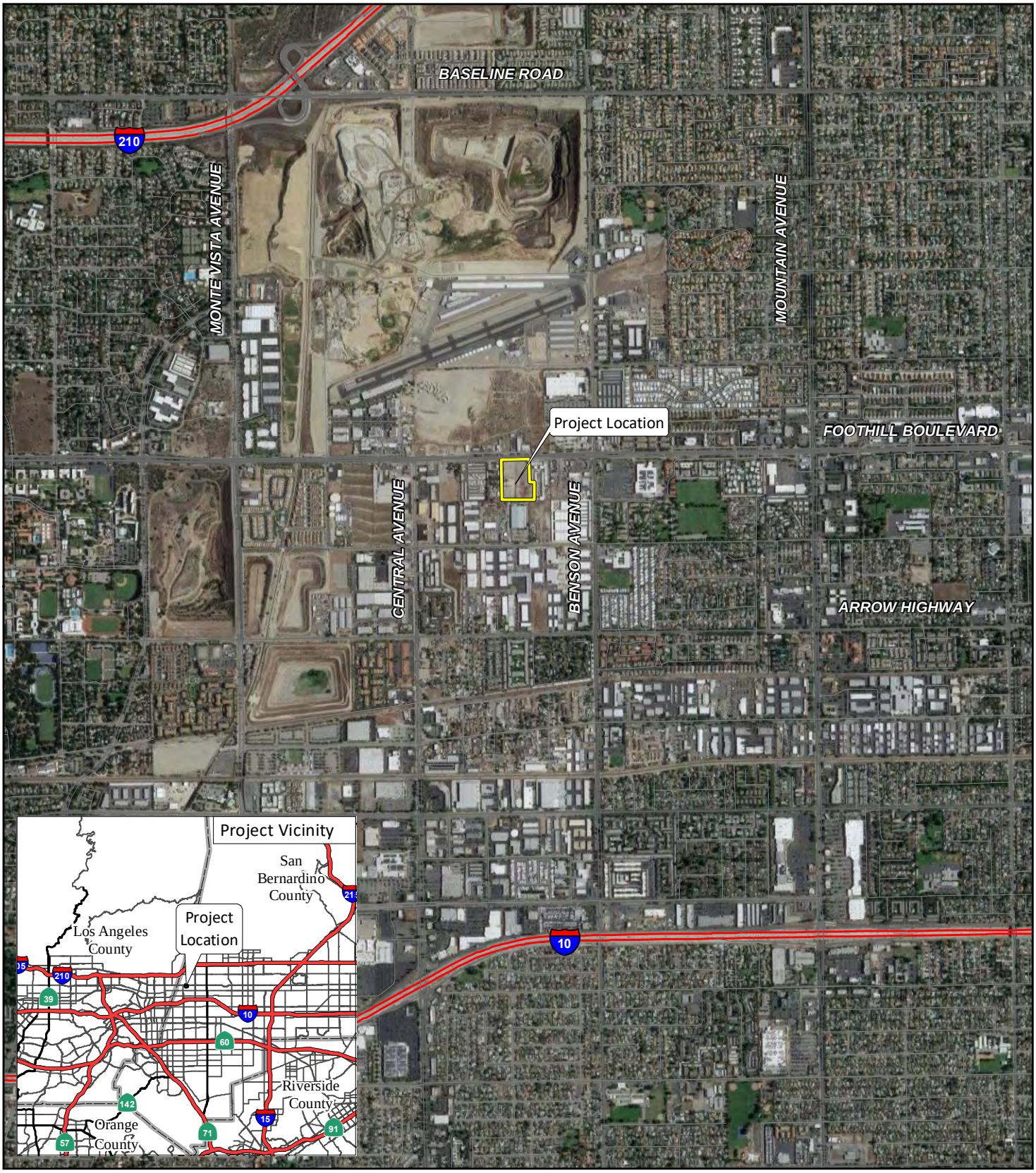


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FIGURE 1

N

0 1000 2000

FEET

West Foothill Development Project
Traffic Impact Analysis

Regional and Project Location

SOURCE: ESRI Streetmap, 2021; Google Earth, 2021

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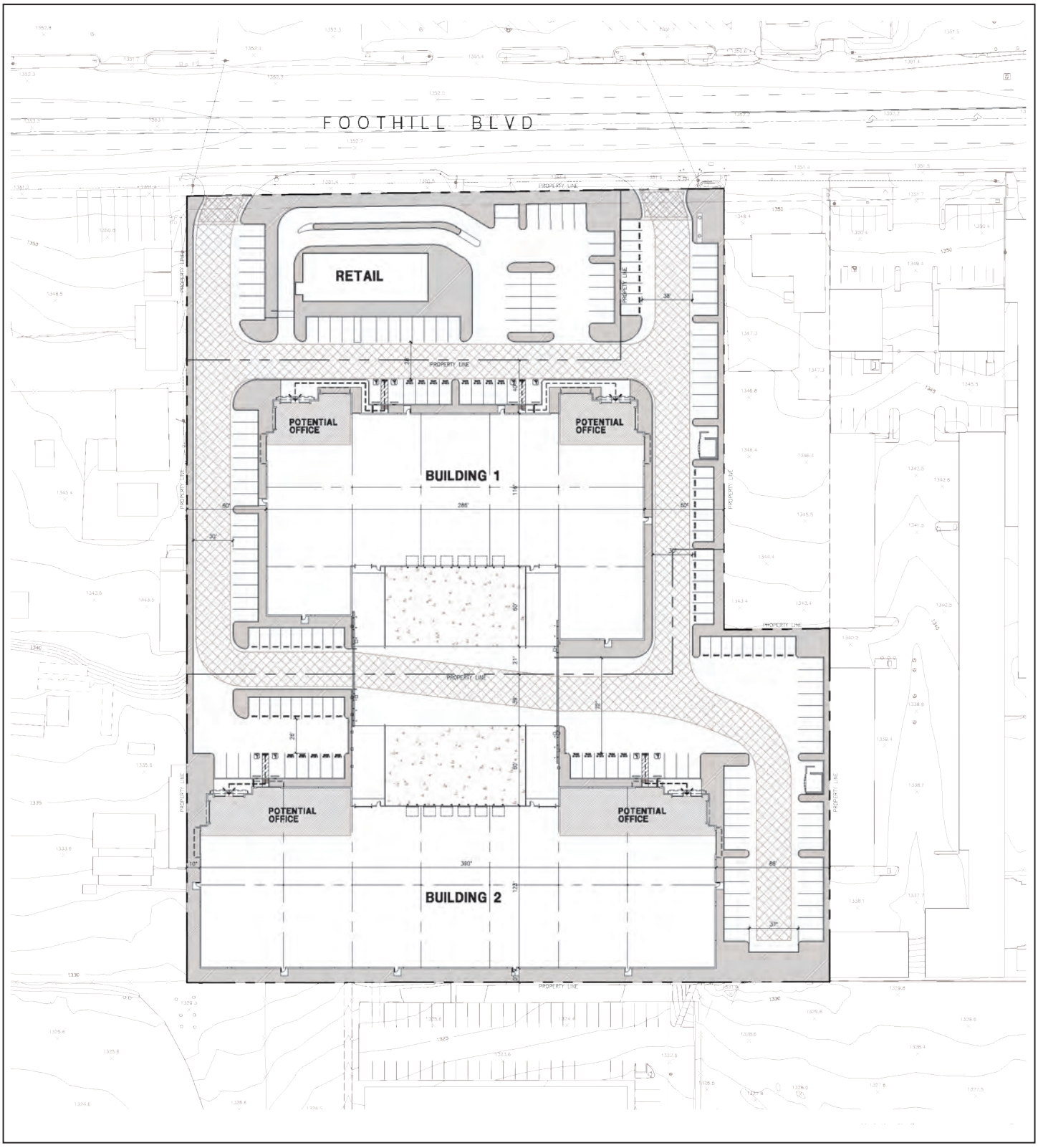

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FIGURE 2

N

0 50 100

FEET

West Foothill Development Project
Traffic Impact Analysis

Conceptual Site Plan

Date: HPA Architecture, March 2022

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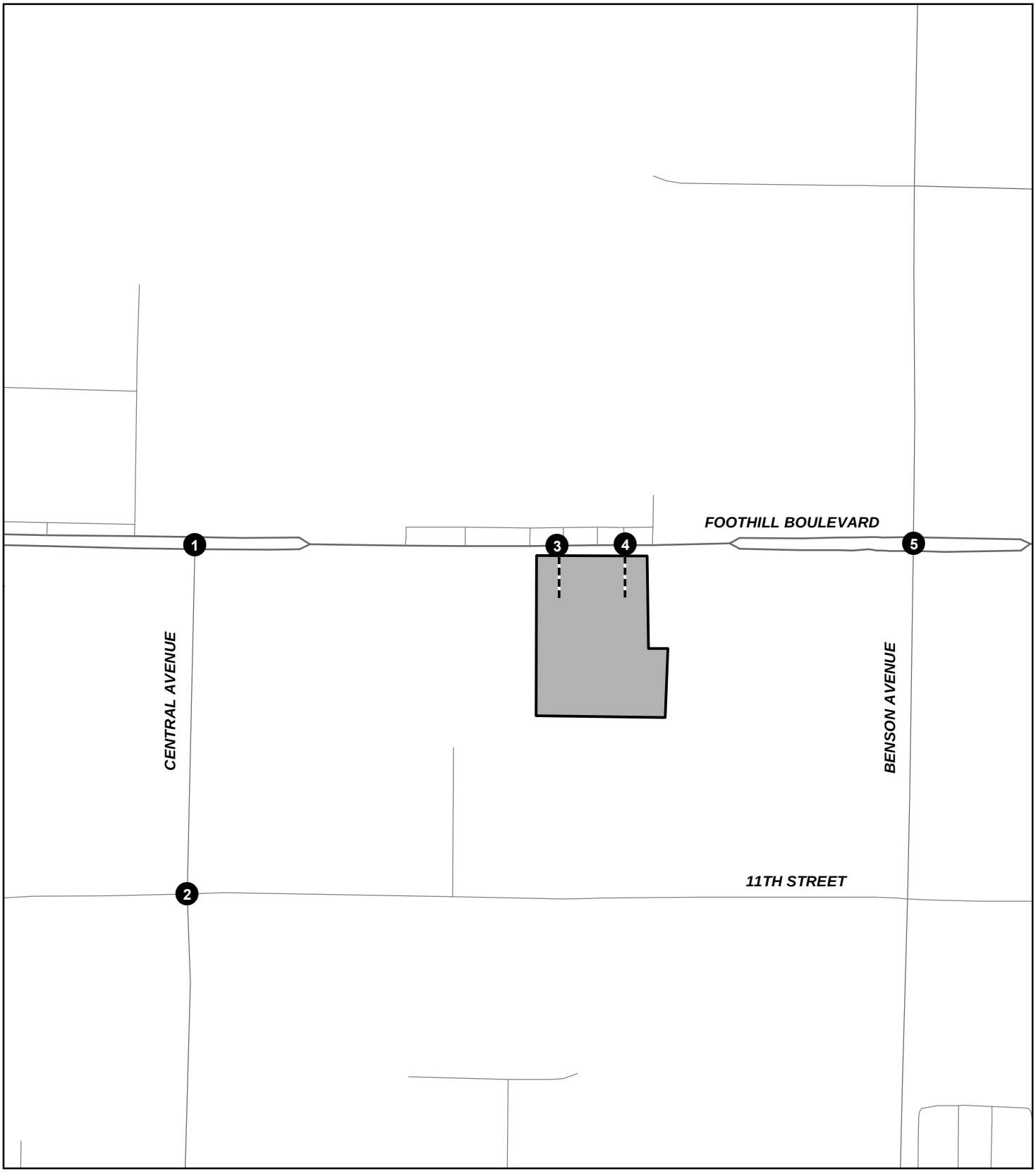

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FIGURE 3

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Project Location

Study Area Intersection

Project Driveway

N

0 250 500

FEET

SOURCE: ESRI Streetmap, 2021

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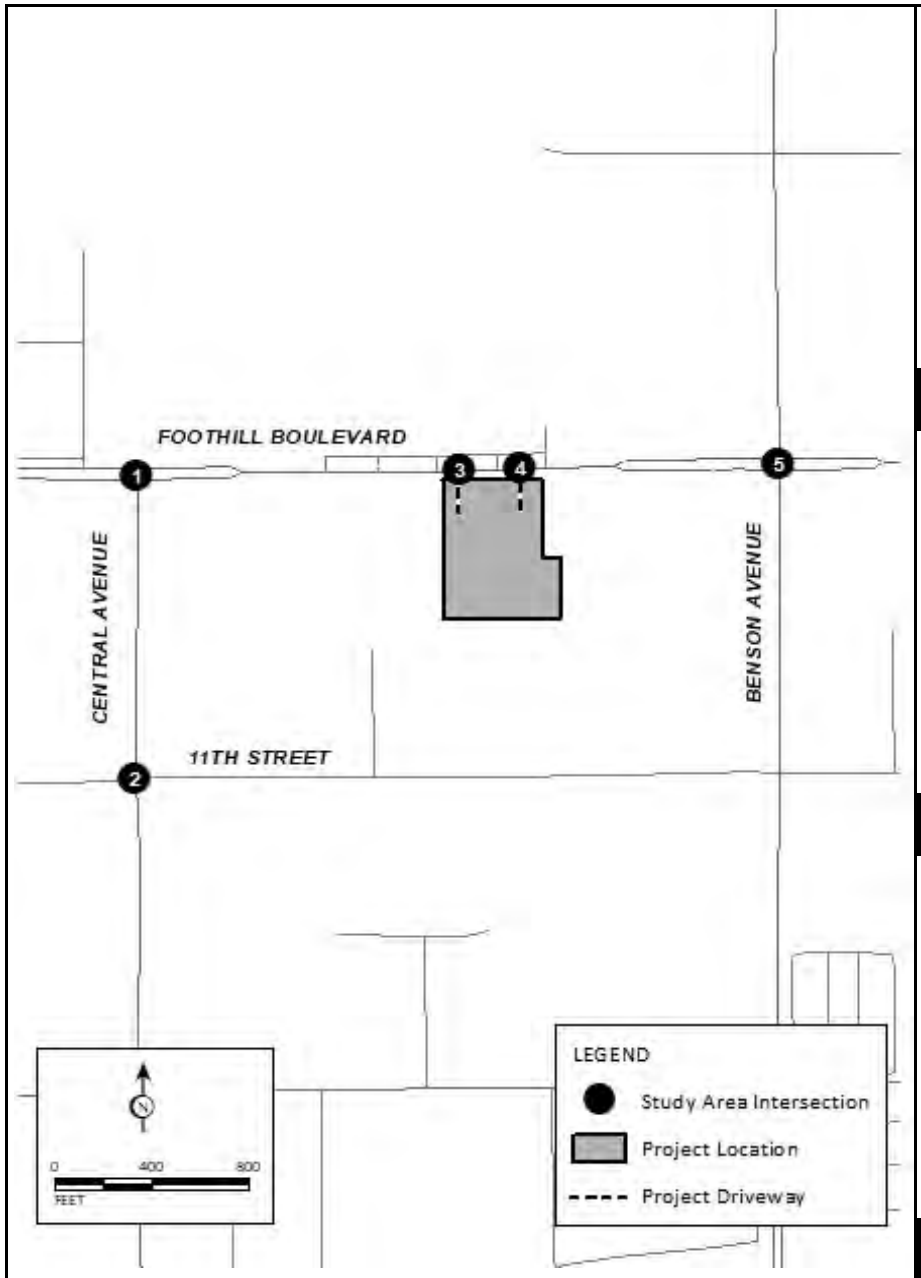
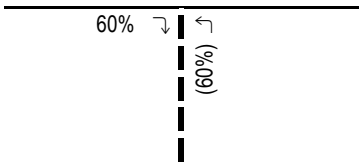
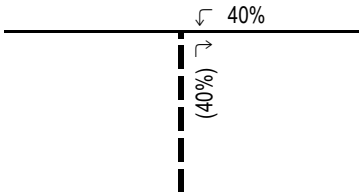
West Foothill Development Project
Traffic Impact Analysis

Study Area Intersections

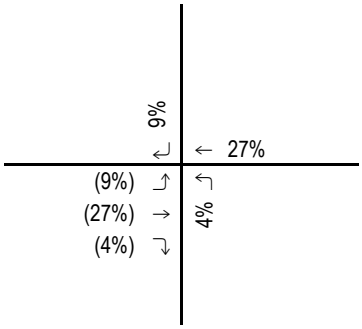




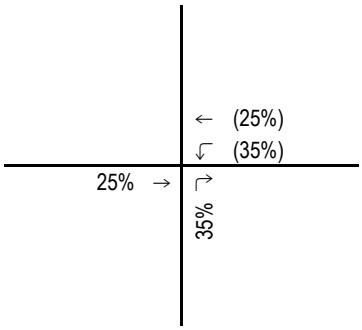
3 Project Driveway 1/Foothill Boulevard



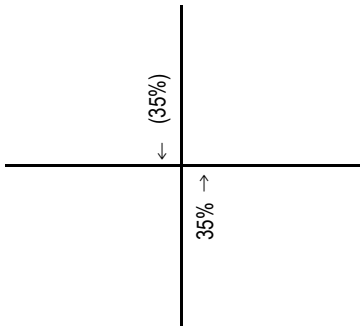
4 Project Driveway 2/Foothill Boulevard



5 Benson Avenue/Foothill Boulevard



1 Central Avenue/Foothill Boulevard



2 Central Avenue/11th Street

FIGURE 4

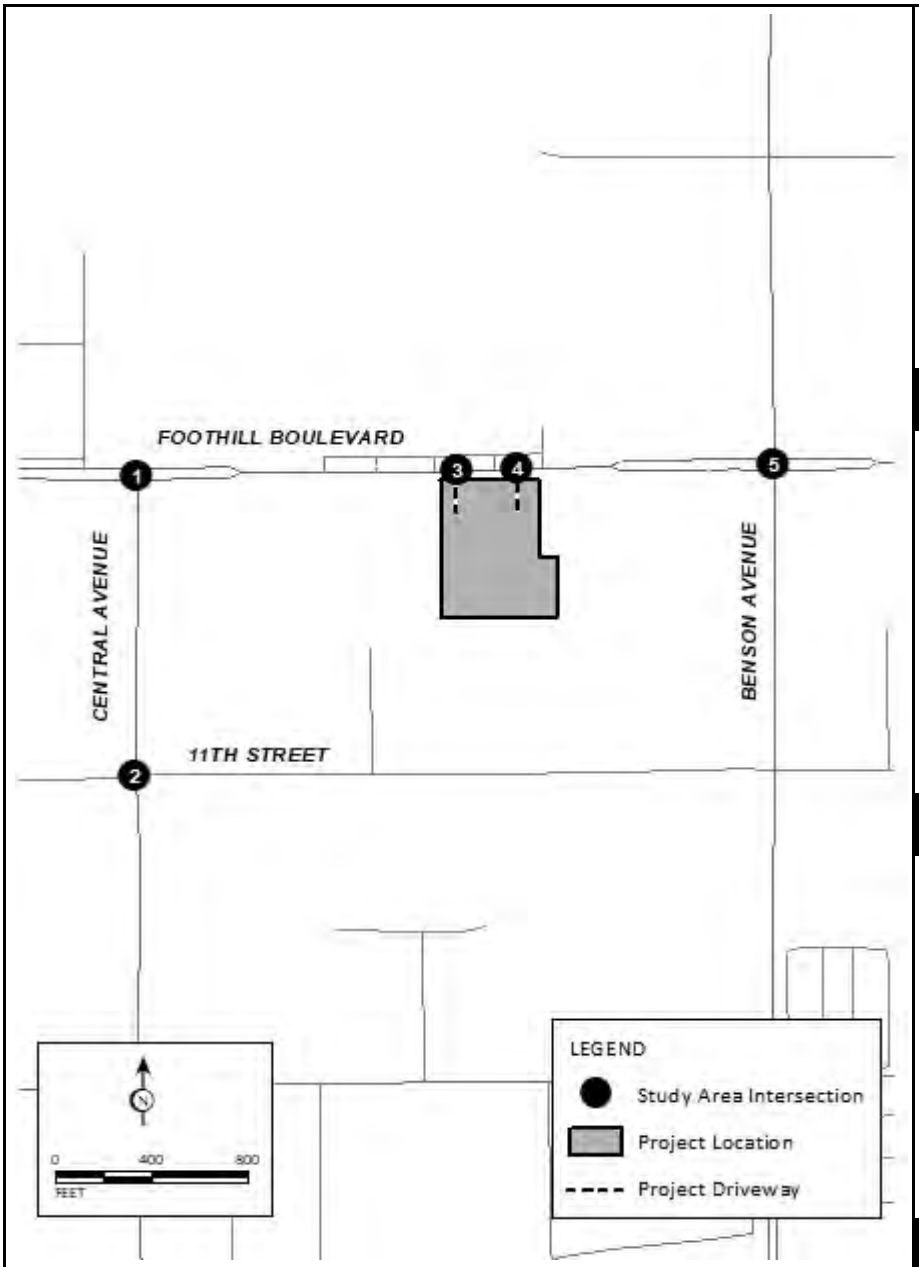
LSA

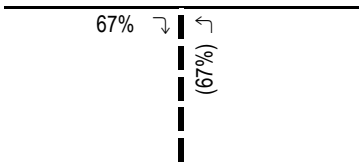
XX% (YY%)
Inbound% (Outbound%) Distribution

Project Driveway

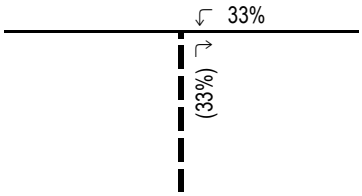
West Foothill Development Project
Traffic Impact Analysis

Project Trip Distribution - Fast-Food Restaurant

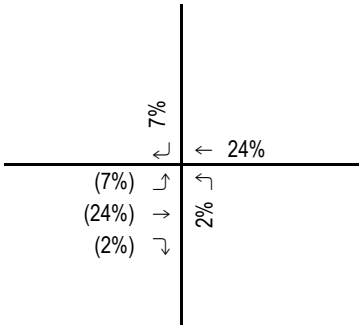




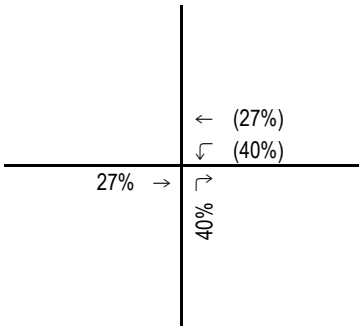
3 Project Driveway 1/Foothill Boulevard



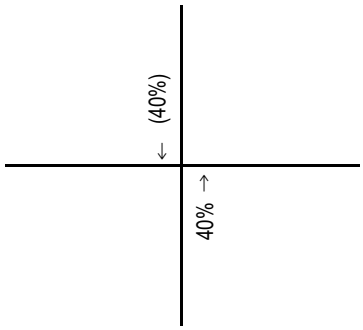
4 Project Driveway 2/Foothill Boulevard



5 Benson Avenue/Foothill Boulevard



1 Central Avenue/Foothill Boulevard



2 Central Avenue/11th Street

FIGURE 5

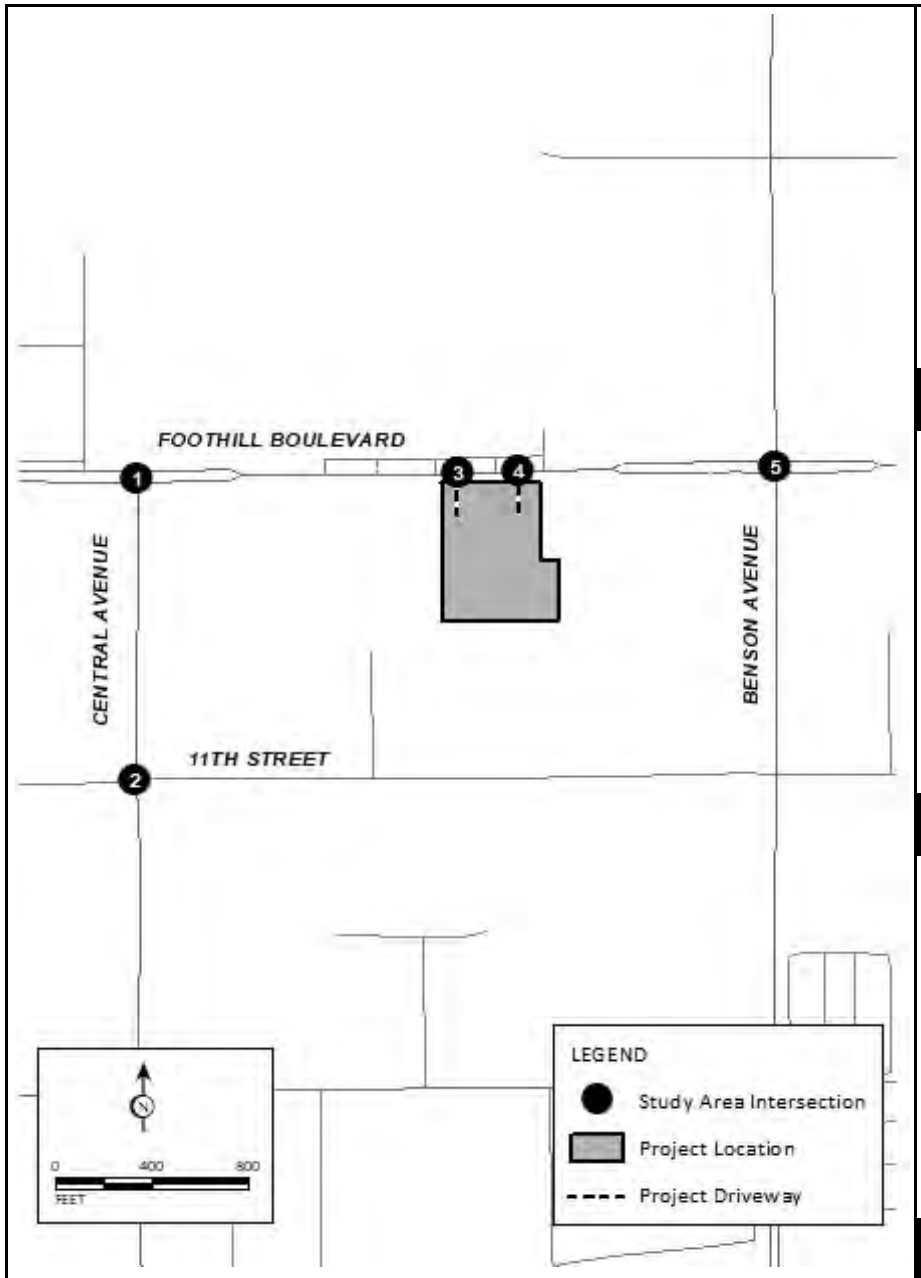
LSA

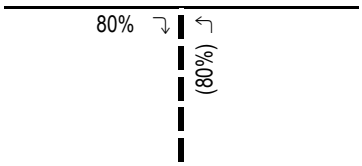
XX% (YY%)
Inbound% (Outbound%) Distribution

Project Driveway

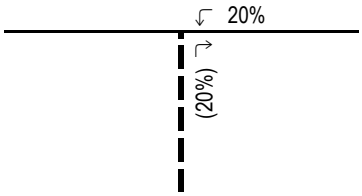
West Foothill Development Project
Traffic Impact Analysis

Project Trip Distribution – Warehouse (Passenger Vehicles)

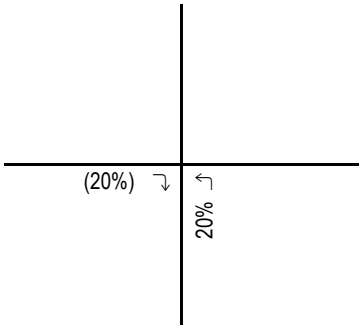




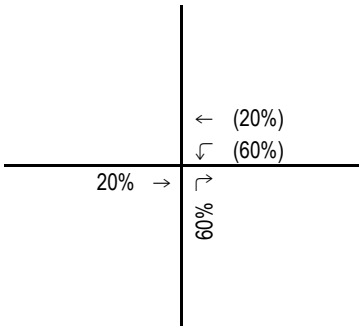
3 Project Driveway 1/Foothill Boulevard



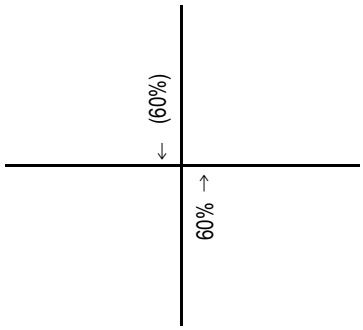
4 Project Driveway 2/Foothill Boulevard



5 Benson Avenue/Foothill Boulevard



1 Central Avenue/Foothill Boulevard



2 Central Avenue/11th Street

FIGURE 6

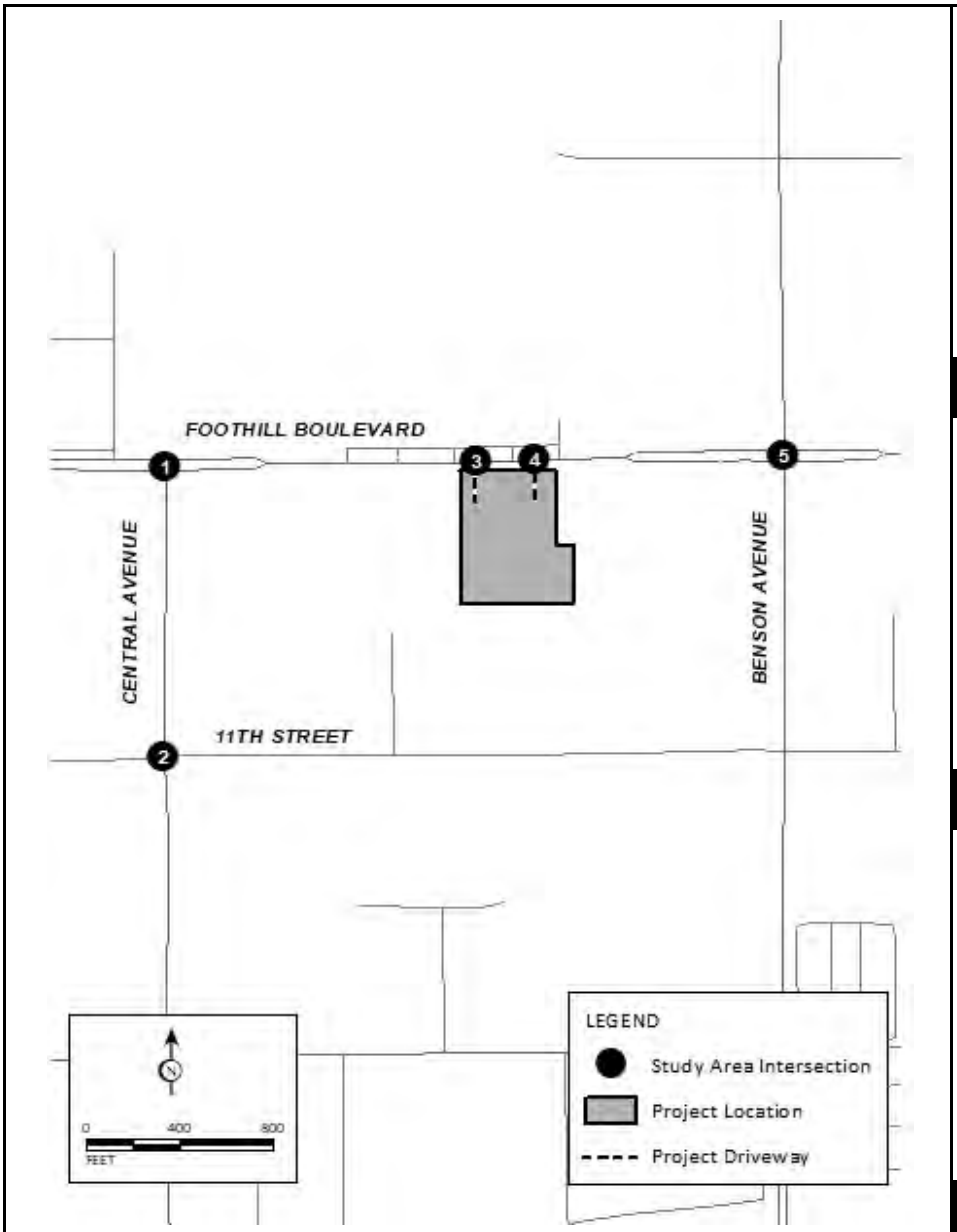
LSA

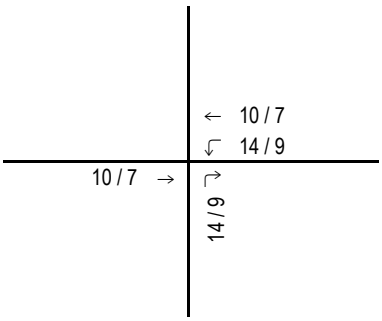
XX% (YY%)
Inbound% (Outbound%) Distribution

Project Driveway

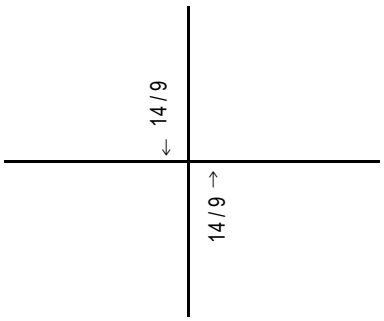
West Foothill Development Project
Traffic Impact Analysis

Project Trip Distribution – Warehouse (Trucks)

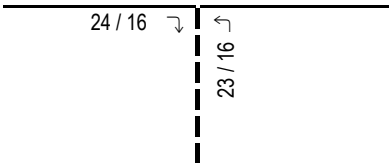




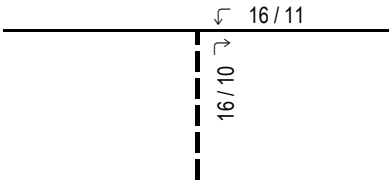
1 Central Avenue/Foothill Boulevard



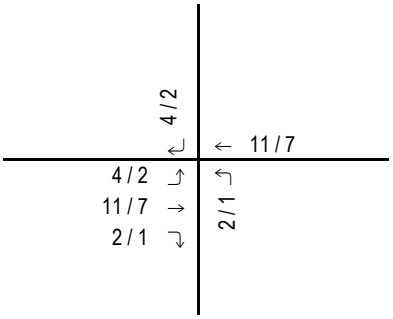
2 Central Avenue/11th Street



3 Project Driveway 1/Foothill Boulevard



4 Project Driveway 2/Foothill Boulevard



5 Benson Avenue/Foothill Boulevard

FIGURE 7

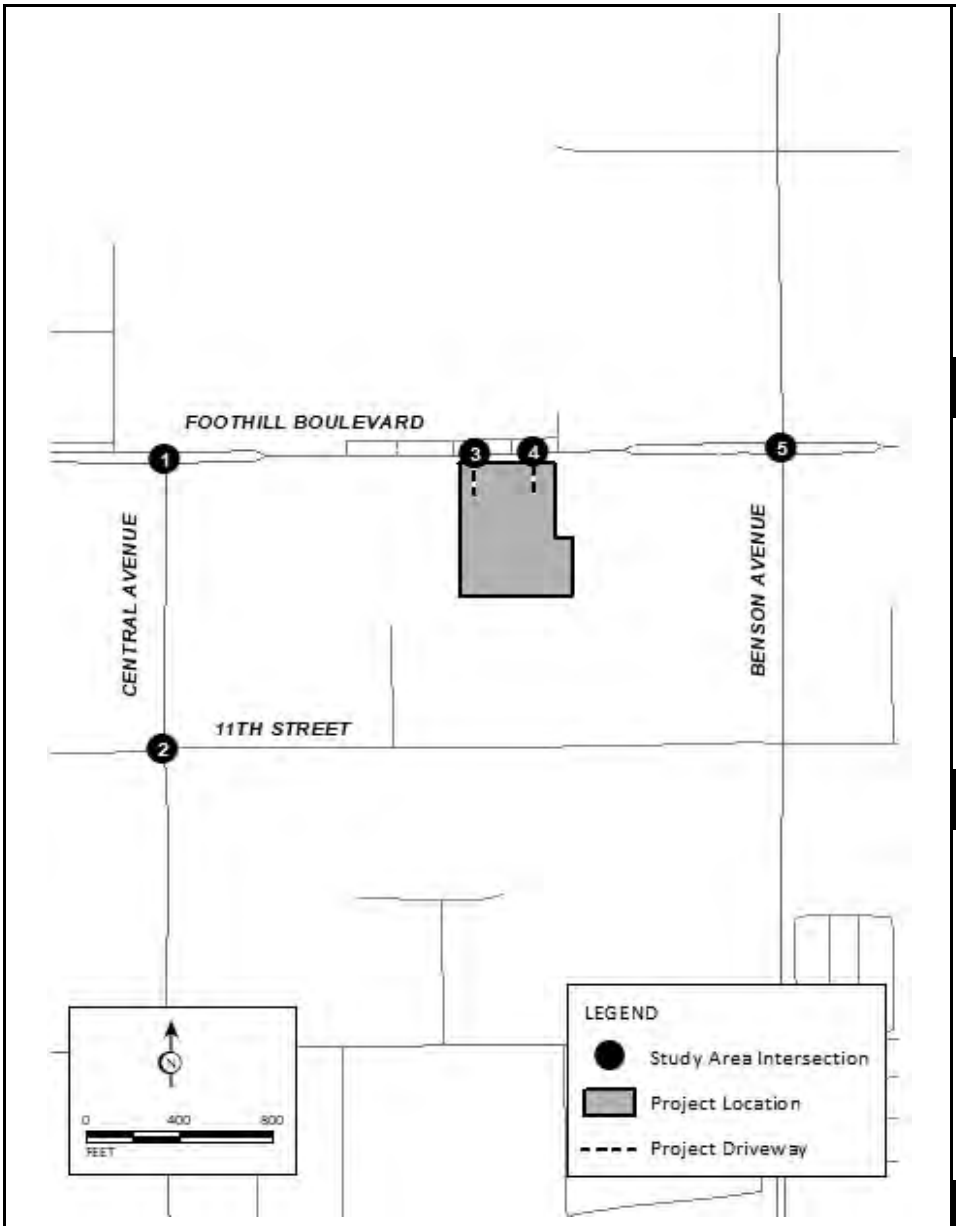
LSA

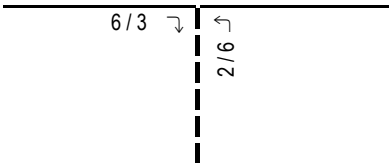
XX / YY
AM / PM Peak Hour Trips

Project Driveway

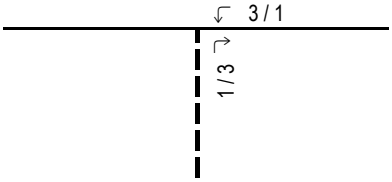
West Foothill Development Project
Traffic Impact Analysis

Project Net Trip Assignment – Fast-Food Restaurant

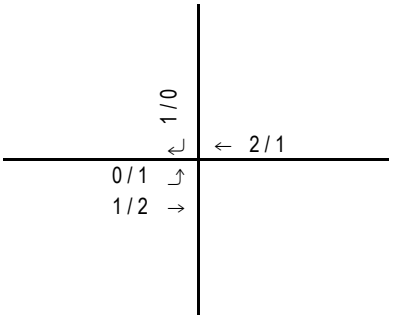




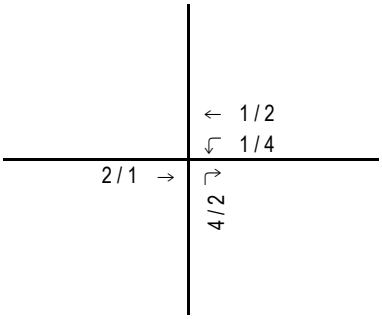
3 Project Driveway 1/Foothill Boulevard



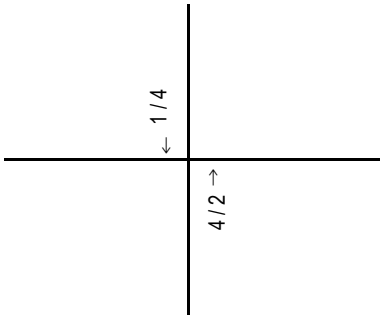
4 Project Driveway 2/Foothill Boulevard



5 Benson Avenue/Foothill Boulevard



1 Central Avenue/Foothill Boulevard



2 Central Avenue/11th Street

FIGURE 8

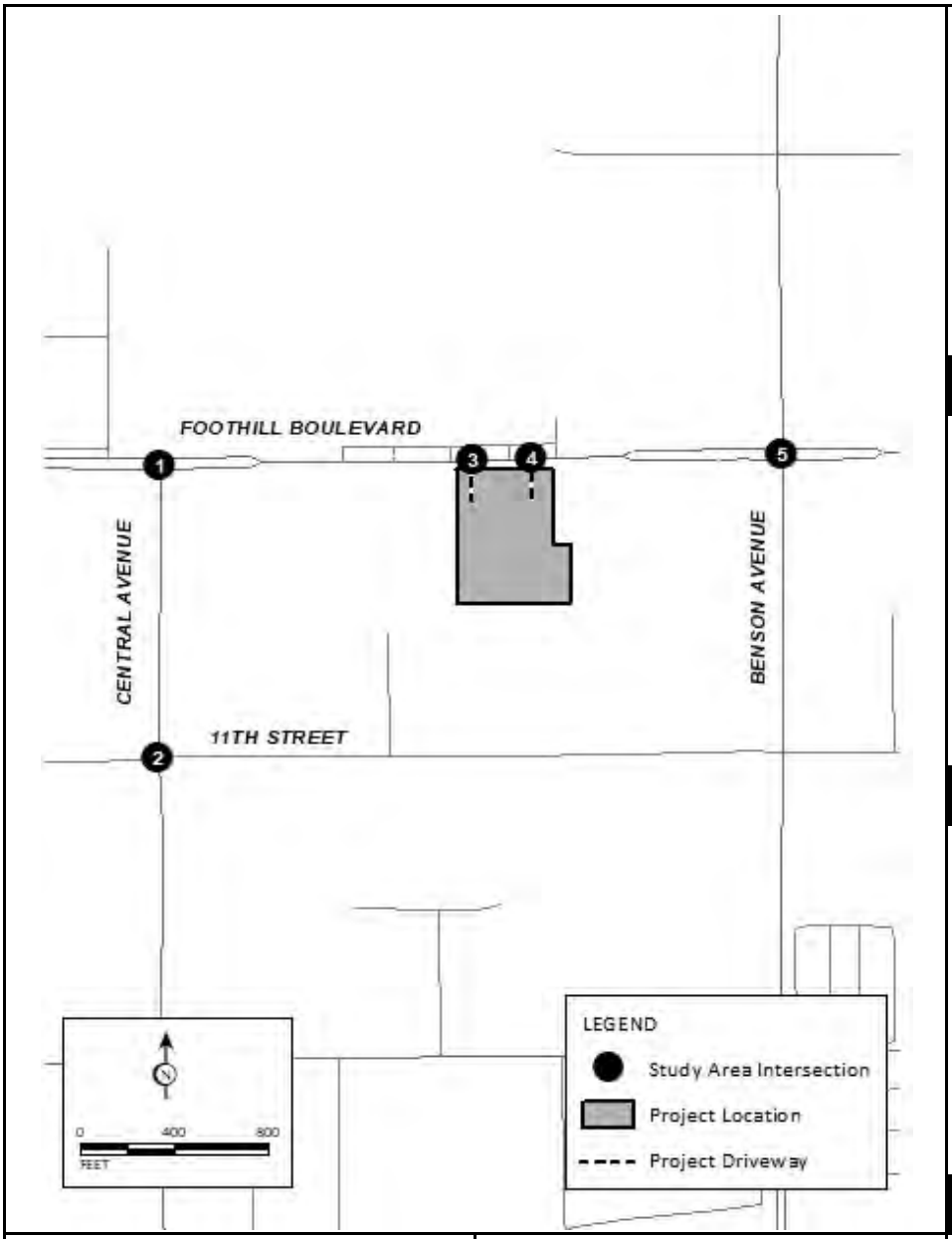
LSA

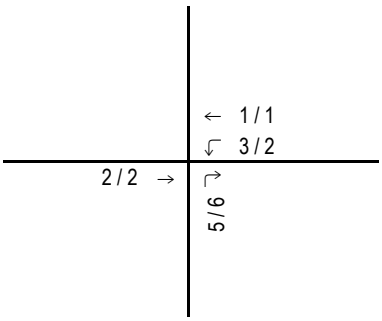
X / Y
AM / PM Peak Hour Trips

Project Driveway

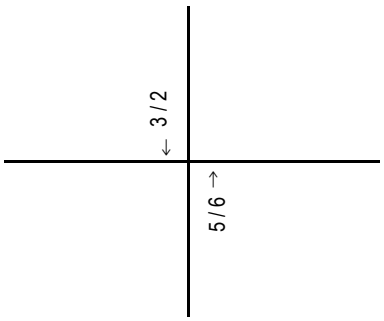
West Foothill Development Project
Traffic Impact Analysis

Project Trip Assignment – Warehouse (Passenger Vehicles)

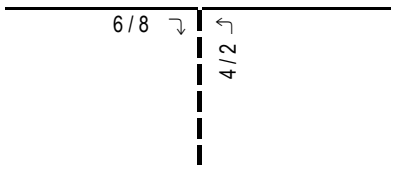




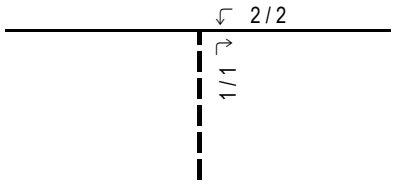
1 Central Avenue/Foothill Boulevard



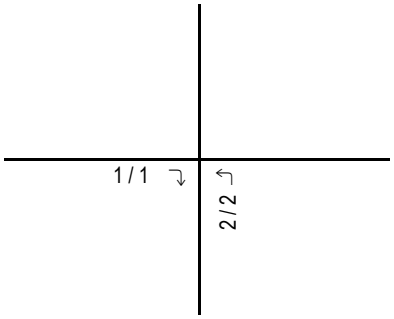
2 Central Avenue/11th Street



3 Project Driveway 1/Foothill Boulevard



4 Project Driveway 2/Foothill Boulevard



5 Benson Avenue/Foothill Boulevard

FIGURE 9

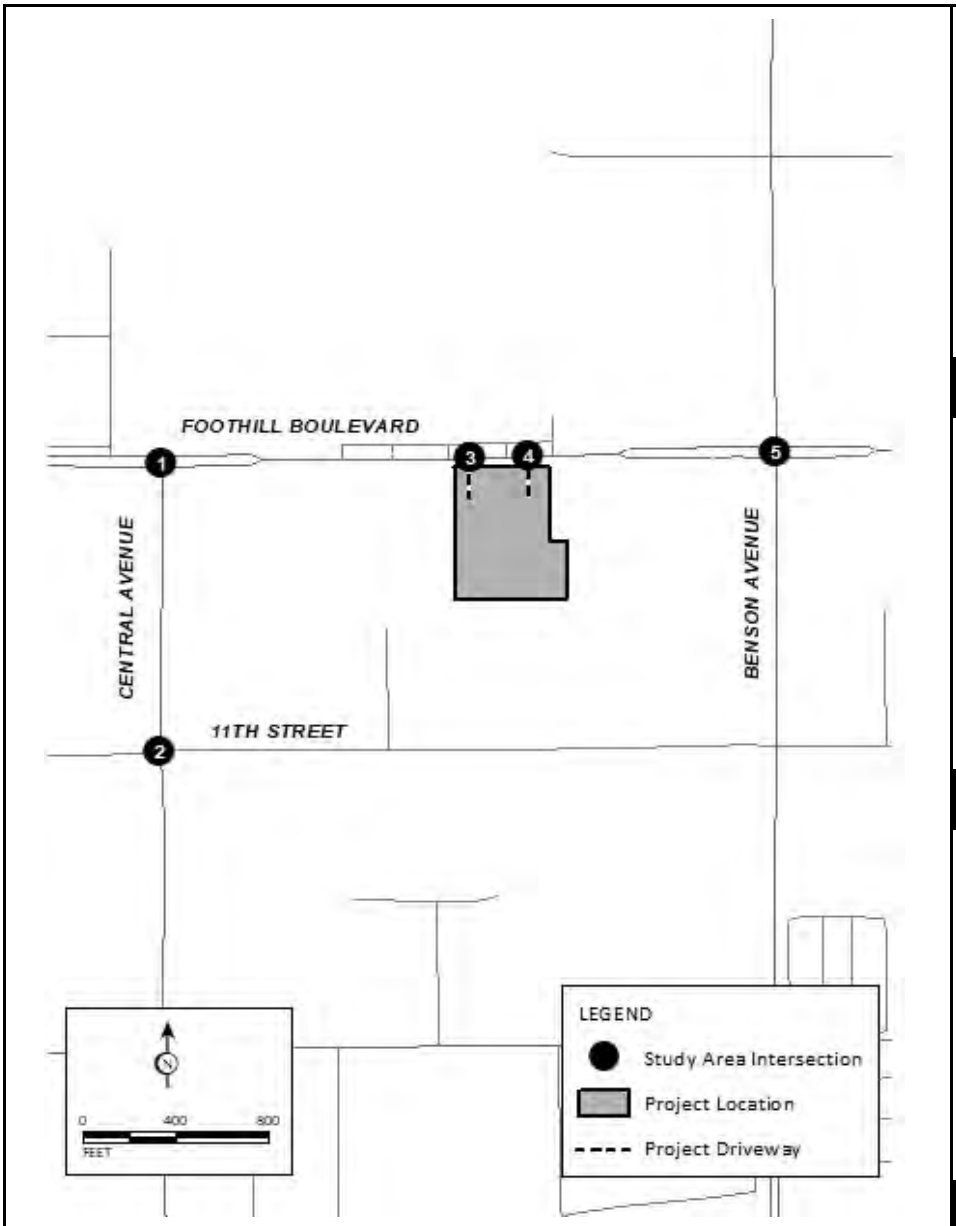
LSA

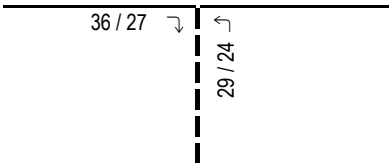
X / Y
AM / PM Peak Hour PCE Trips

Project Driveway

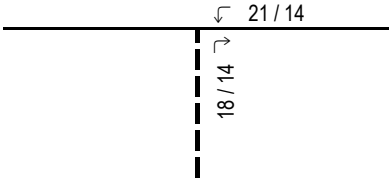
West Foothill Development Project
Traffic Impact Analysis

Project Trip Assignment - Warehouse (Trucks)

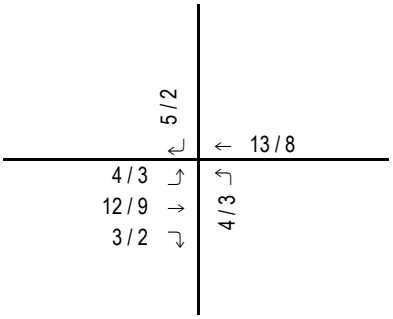




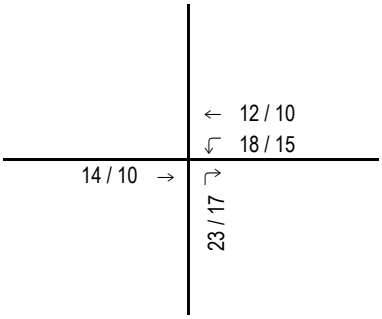
3 Project Driveway 1/Foothill Boulevard



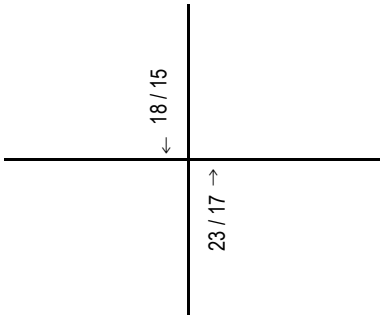
4 Project Driveway 2/Foothill Boulevard



5 Benson Avenue/Foothill Boulevard



1 Central Avenue/Foothill Boulevard



2 Central Avenue/11th Street

FIGURE 10

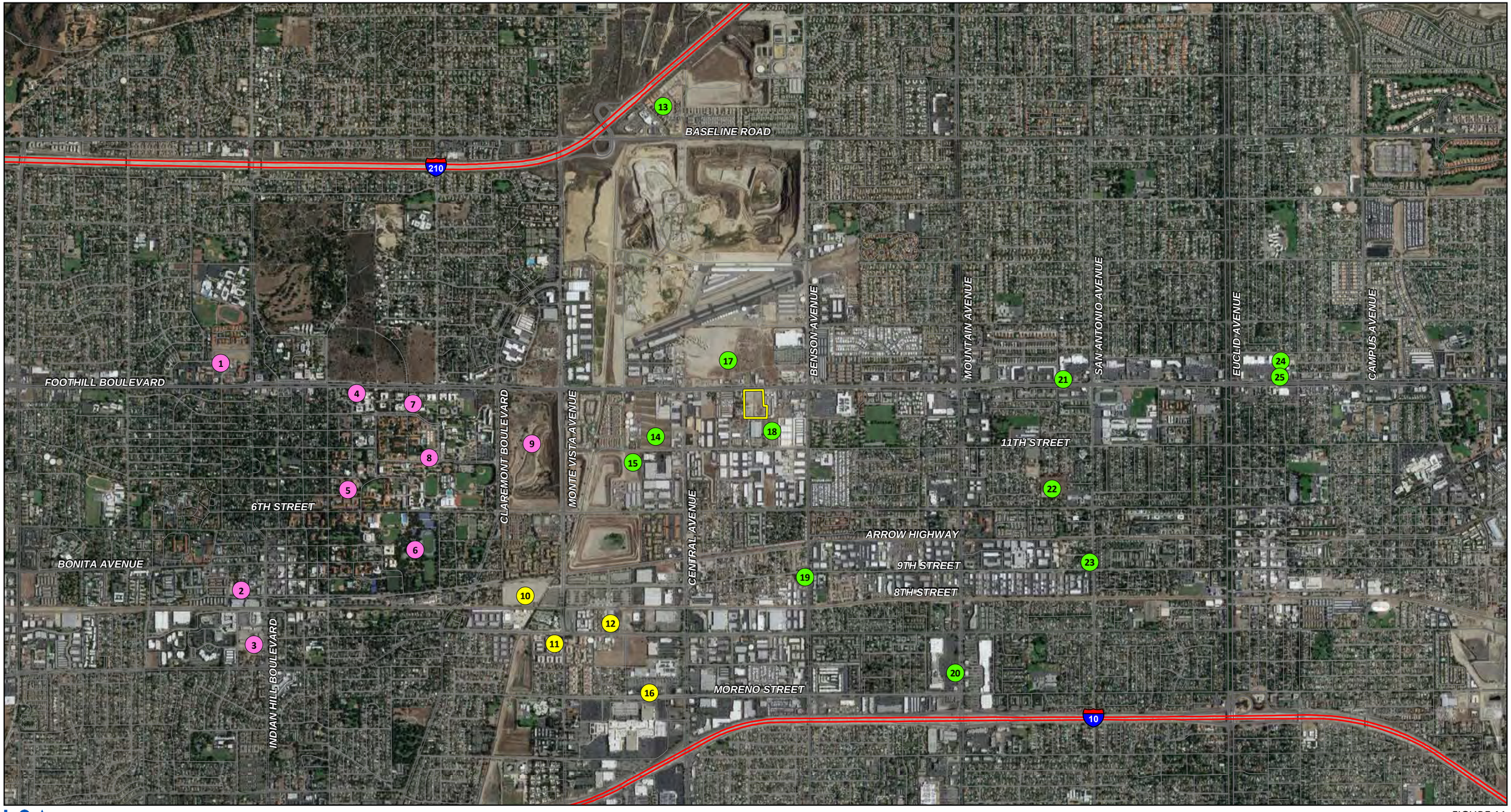
LSA

XX / YY
AM / PM Peak Hour PCE Trips

Project Driveway

West Foothill Development Project
Traffic Impact Analysis

Total Project Net Trip Assignment



LSA

LEGEND

Project Site

Cumulative Projects

City of Claremont

City of Upland

City of Montclair

0 1000 2000

FEET

SOURCE: Google Earth, 2021; ESRI Streetmap, 2021.

C:\Users\OCampuzano\OneDrive - LSA Associates\Desktop\Working\GIS\MVP\fig11_Cumul_Proj.mxd (8/11/2022)

FIGURE 11

West Foothill Development Project
Traffic Impact Analysis

Cumulative Project Locations

TABLES

LSA

Table A - Project Trip Generation

Land Uses	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
Warehouse[1,2,3]								
	101.092 TSF							
Trips/Unit (Cars)		0.09	0.03	0.12	0.03	0.09	0.12	1.18
Trips/Unit (2-Axle Trucks)		0.01	0.01	0.01	0.01	0.01	0.01	0.12
Trips/Unit (3-Axle Trucks)		0.00	0.00	0.01	0.01	0.00	0.01	0.09
Trips/Unit (4+ Axle Trucks)		0.02	0.02	0.03	0.02	0.02	0.03	0.32
Trips/Unit (Total)		0.12	0.05	0.17	0.06	0.12	0.18	1.71
Trip Generation (Cars)		9	3	12	4	9	13	120
Trip Generation (2-Axle Trucks)		1	0	1	1	0	1	12
Trip Generation (3-Axle Trucks)		0	1	1	1	0	1	10
Trip Generation (4+ Axle Trucks)		2	1	3	2	1	3	33
Trip Generation (Total Trucks)		3	2	5	4	1	5	55
Trip Generation (Total)		12	5	17	8	10	18	175
Trip Generation (Cars)		9	3	12	4	9	13	120
PCE Trip Generation (2-Axle Trucks)		2	0	2	2	0	2	18
PCE Trip Generation (3-Axle Trucks)		0	2	2	2	0	2	20
PCE Trip Generation (4+ Axle Trucks)		6	3	9	6	3	9	99
PCE Trip Generation (Total Trucks)		8	5	13	10	3	13	137
PCE Trip Generation (Total)		17	8	25	14	12	26	257
Fast Food Restaurant with Drive-Through Window								
	3.570 TSF							
Trips/Unit (Cars)[4]		22.75	21.86	44.61	17.18	15.85	33.03	467.48
Trip Generation (Cars)		81	78	159	61	57	118	1,669
Pass-By Trips[5]		(41)	(39)	(80)	(34)	(31)	(65)	(876)
Net Trip Generation (Cars)		40	39	79	27	26	53	793
Total Gross Trip Generation (Passenger Vehicles)		**90**	**81**	**171**	**65**	**66**	**131**	**1,789**
Total Gross PCE Trip Generation (Trucks)		**8**	**5**	**13**	**10**	**3**	**13**	**137**
Total Gross PCE Trip Generation		**98**	**86**	**184**	**75**	**69**	**144**	**1,926**
Total Net Pass-By Trips		**(41)**	**(39)**	**(80)**	**(34)**	**(31)**	**(65)**	**(876)**
Total Net PCE Trip Generation		**57**	**47**	**104**	**41**	**38**	**79**	**1,050**

Notes:

TSF = Thousand Square Feet; PCE = Passenger Car Equivalent

[1] Rates obtained from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition) for Land Use 150 - "Warehousing", Setting Location - "General Urban/Suburban."

[2] Passenger vehicle and truck in/out splits obtained from the ITE *Trip Generation Manual* (11th Edition), Land Use 150 – "Warehousing", Setting/Location - "General Urban/Suburban."

[3] The resulting trips were converted to trucks and passenger vehicles based on the South Coast Air Quality Management District (SCAQMD) recommendations for warehousing projects. As such, 31 percent of project traffic will be trucks. Based on the vehicle mix from the SCAQMD *Warehouse Truck Trip Study Data Results and Usage* , dated December 2014, the truck mix was considered as 18.7% 4+ axle, 5.5% 3-axle, and 6.8% 2-axle trucks. Further, all truck trips were converted to PCEs using a PCE factor of 1.5 for 2-axle trucks, 2.0 for 3-axle trucks, and 3.0 for 4- and more axle trucks.

[4] Rates obtained from the ITE *Trip Generation Manual* (11th Edition) for Land Use 934 - "Fast-Food Restaurant with Drive-Through Window", Setting Location - "General Urban/Suburban."

[5] Pass-by rates obtained from the ITE Trip Generation Manual (11th Edition) for Land Use 934 – "Fast-Food Restaurant with Drive-Through Window." Daily pass-by rates are not available for this land use in the ITE Manual; therefore, the average of the a.m. and p.m. peak hour pass-by rates was used as the daily pass-by rate.

LSA

Table B - Cumulative Projects

ID	Jurisdiction	Project Name/Reference	Address/Location	Project Description	Project Units/Area/Other
1	Claremont	Doubletree Hotel/Old School House Specific Plan	North of Foothill Boulevard and west of Indian Hill Boulevard	126-unit residential condominiums/townhomes (30 in building with new 240-space parking structure and 96 on Colby Circle)	126 DU Multi-Family
2	Claremont	Village Lofts	127 Oberlin Avenue	Mixed-use development with apartments, live/work units, and retail	64 DU Apartments; 10 Live/work unit; 5.000 TSF Retail
3	Claremont	South Village Development Project	North of Arrow Highway and West of Indian Hill Boulevard	Specific Plan	51.000 TSF Retail; 8.000 TSF Quality Restaurant; 36.000 TSF High Turnover (Sit-Down) Restaurant; 45.000 TSF Office; 50 RM Hotel; 977 DU Multifamily (Mid-rise); 25 DU Multifamily (Low-rise)
4	Claremont	CGU Master Plan	Generally bounded by south of Foothill Boulevard and east of Dartmouth	Potential addition of up to 475 regularly enrolled students, and 99 faculty and staff, and expansion, remodeling, and replacement of campus facilities, resulting in a potential increase in building area of approximately 170,000 assignable square feet	475 Student Addition
5	Claremont/Upland	Claremont McKenna College Master Plan	South of 8th Street and West of College Way	Demolition of up to 256,112 square feet and construction of up to 979,000 square feet (and potential increase of up to 250 students)	250 Student Addition
6	Claremont	Pomona College 2015 Master Plan	South of 6th Street and West of Claremont	Includes increase of 50 students, 60 staff and faculty, and 205,400 square feet of new campus building area	50 Student Addition
7	Claremont	Harvey Mudd College 2015 Master Plan Amendment	South of East Foothill Boulevard and north of Platt Boulevard, between North Dartmouth Avenue and North Claremont Boulevard	Addition of 100 enrolled students and a potential increase in building area	100 Student Addition
8	Claremont	Keck Science Center Expansion	925 Mills Avenue	70,000 square foot, three-story, semi detached ground up building for Keck Science Center labs and classrooms	70.000 TSF School
9	Claremont/Upland	Claremont Colleges East Campus (Sports Complex), TPM 70423	South of Foothill Boulevard between Claremont Boulevard and Monte Vista Avenue	Sports Complex and parking facilities for CMC and Pitzer College	75.000 AC
10	Montclair	Montclair Station	4700 Huntington Drive	Apartments	302 DU
11	Montclair	Alexan Kendry Expansion	Southwest corner of Arrow Highway and Monte Vista Avenue	Apartments	137 DU
12	Montclair	Village at Montclair	5050 Arrow Highway	Mixed-use development including retail/office space and apartment units	350 DU Apartments; 25.000 TSF Retail
13	Upland	Sycamore Hills PA3	Baseline Road and Parkview Promenade	176 condominiums (93 detached and 83 attached units)	176 DU
14	Upland	Lennar at the Enclave	West Foothill Boulevard	192 residential units comprised of 116 detached condominium units and 76 attached condominium units	192 DU
15	Upland	Yellow Iron	2068 West 11th Street	Light Industrial	77.000 TSF Light Industrial Park
16	Montclair	Panera Bread Café	North of Moreno Street and west of Central Avenue	Panera Bread Café restaurant with drive–thru service and outdoor dining	3.950 TSF
17	Upland	Bridge Point Upland Project	Northeast corner of Central Avenue and Foothill Boulevard	Warehouse/parcel delivery service building	266.800 TSF Warehouse; 10.000 TSF Retail
18	Upland	T&T Industrial	1701 West 11th Street	2 office and warehouse buildings totaling 56,000 square feet	56.000 TSF Warehouse
19	Upland	Risen Bakery and Grill	1600 West 9th Street	A bakery and sandwich shop	1.291 TSF
20	Upland	Mountain Green Center	335 South Mountain Avenue	A Chick–fil-A restaurant with drive-thru	5.000 TSF
21	Upland	Dutch Bros. Coffee	887 West Foothill Boulevard	Drive-thru coffee shop	0.950 TSF
22	Upland	Citrus Village Apartments	895 & 911 West Arrow Highway	Senior housing	199 DU

LSA

Table B - Cumulative Projects

ID	Jurisdiction	Project Name/Reference	Address/Location	Project Description	Project Units/Area/Other
23	Upland	San Antonio Apartments	North of 9th Street and west of San Antonio Avenue	6 for-rent apartments and 1 single-family detached home	6 Multifamily DU; 1 Single-family DU
24	Upland	Amazon Fresh	275 East Foothill Boulevard	Grocery Store	35.000 TSF
25	Upland	Starbucks	235 East Foothill Boulevard	Drive-thru coffee shop	3.983 TSF

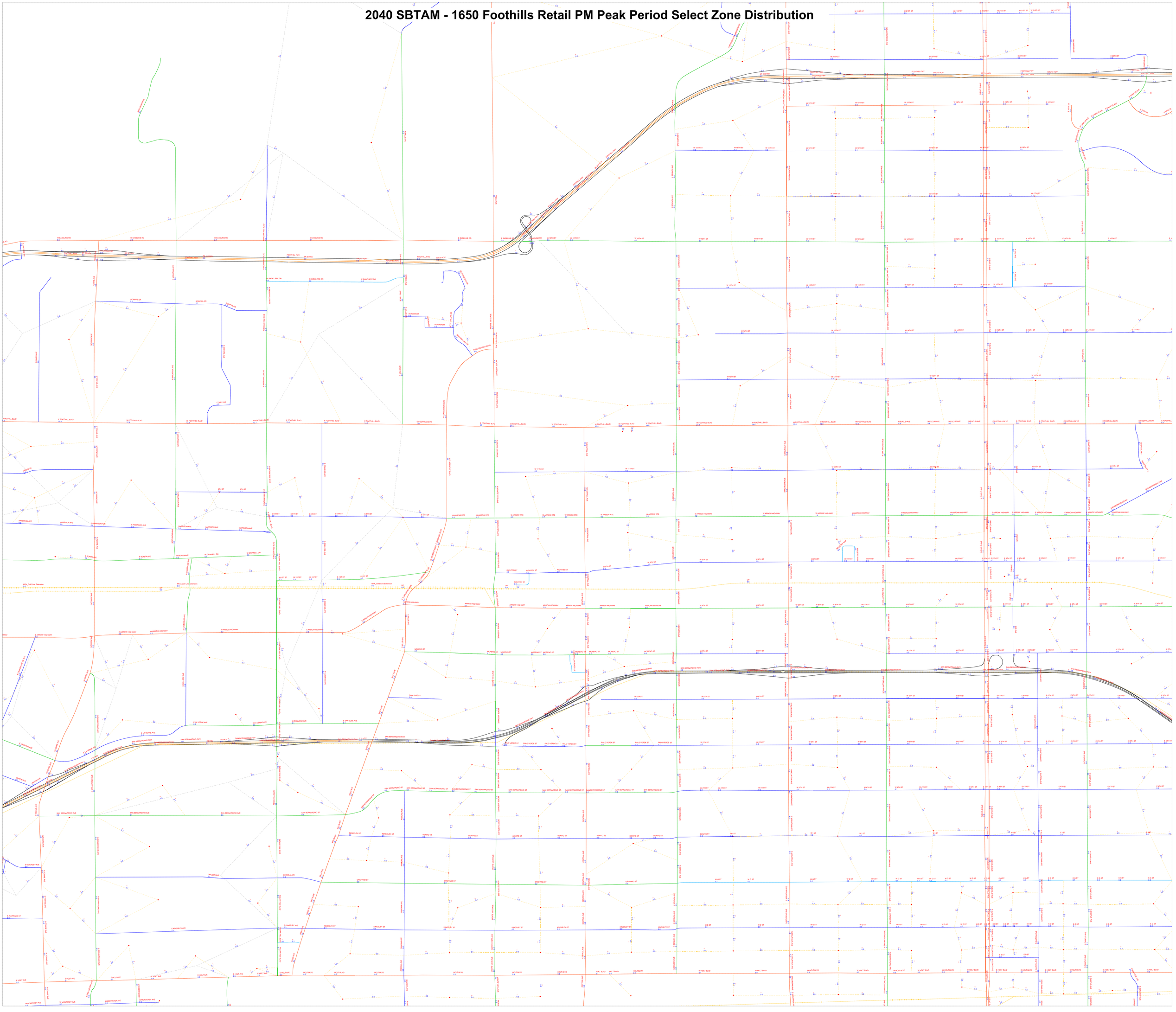
Notes:

DU = Dwelling Units; TSF = Thousand Square Feet; RM = Rooms; AC = Acre.

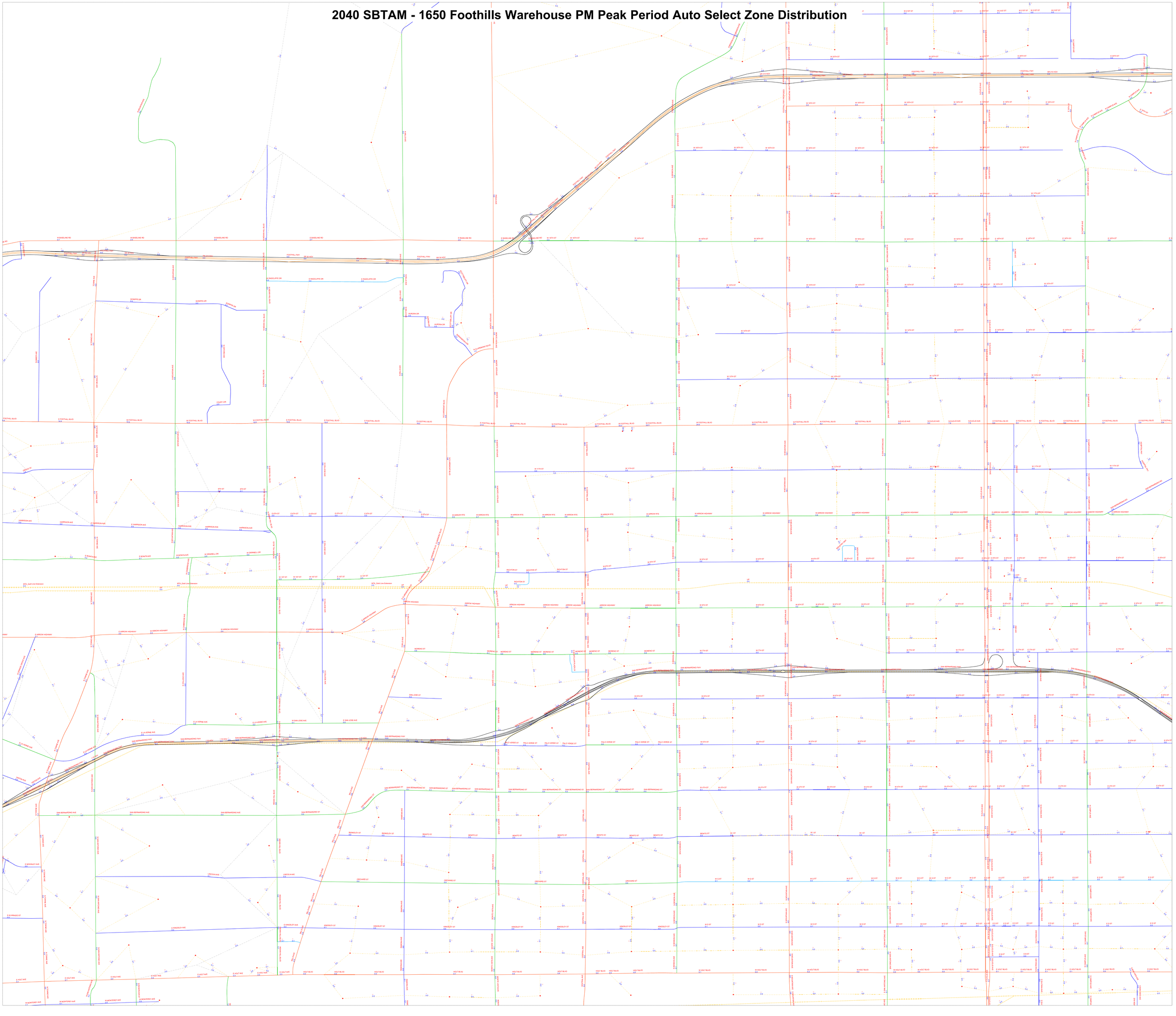
APPENDIX A

SBTAM SELECT ZONE MODEL PLOTS

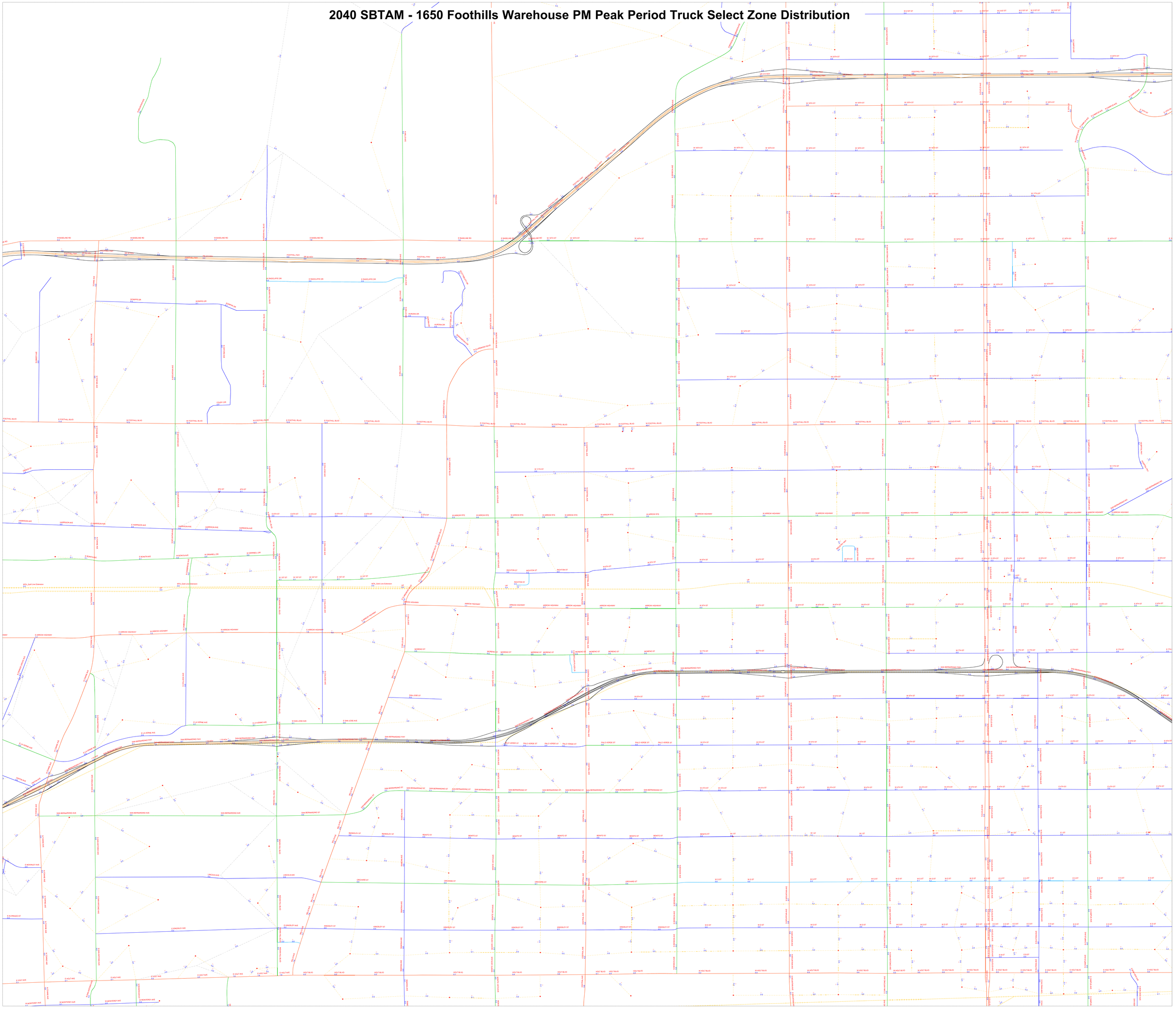
2040 SBTAM - 1650 Foothills Retail PM Peak Period Select Zone Distribution



2040 SBTAM - 1650 Foothills Warehouse PM Peak Period Auto Select Zone Distribution



2040 SBTAM - 1650 Foothills Warehouse PM Peak Period Truck Select Zone Distribution



APPENDIX B

TRAFFIC COUNT SHEETS AND SIGNAL TIMING SHEETS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Upland
N/S: Central Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_UPL_Cen_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

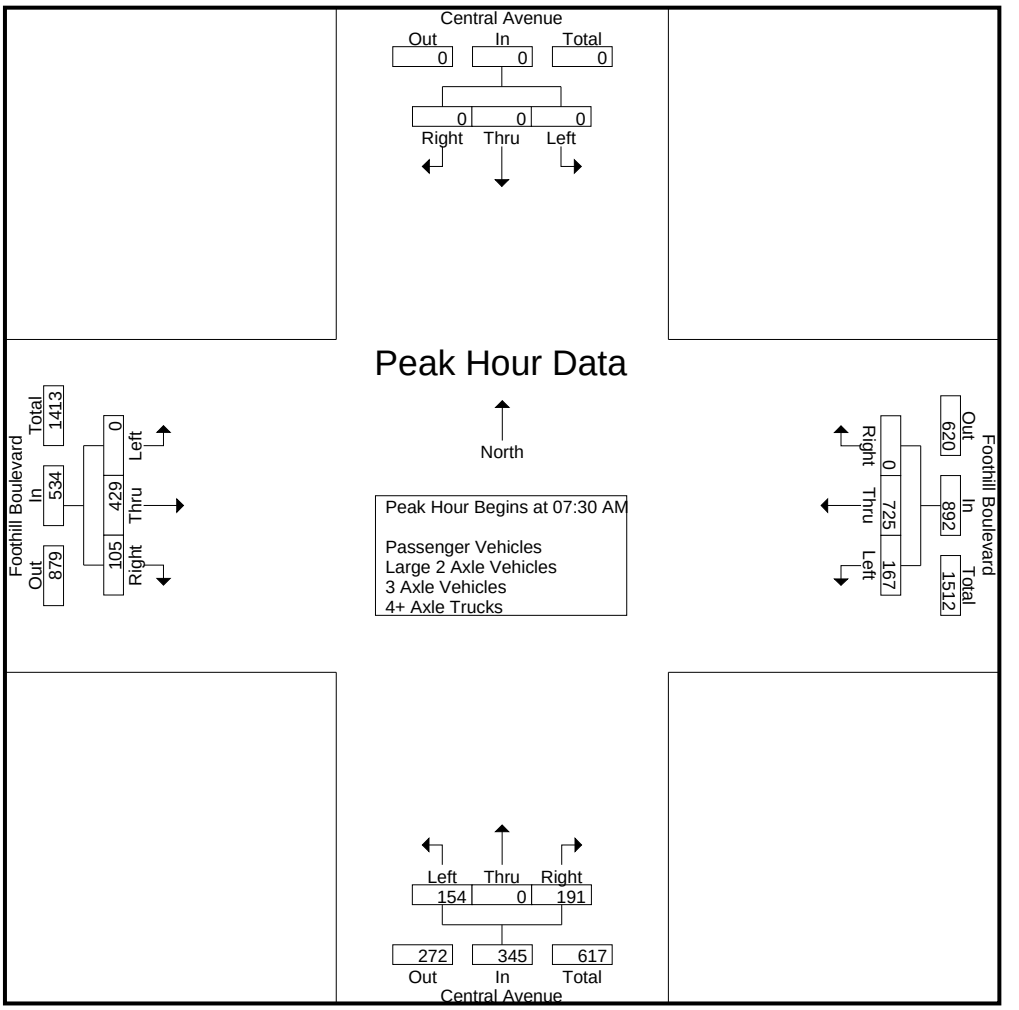
	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	31	140	0	171	36	0	16	52	0	45	19	64	287
07:15 AM	0	0	0	0	30	145	0	175	23	0	23	46	0	74	14	88	309
07:30 AM	0	0	0	0	30	169	0	199	50	0	55	105	0	79	38	117	421
07:45 AM	0	0	0	0	58	223	0	281	40	0	46	86	0	109	19	128	495
Total	0	0	0	0	149	677	0	826	149	0	140	289	0	307	90	397	1512
08:00 AM	0	0	0	0	47	157	0	204	41	0	49	90	0	118	22	140	434
08:15 AM	0	0	0	0	32	176	0	208	23	0	41	64	0	123	26	149	421
08:30 AM	0	0	0	0	58	130	0	188	27	0	45	72	1	91	24	116	376
08:45 AM	0	0	0	0	45	142	0	187	29	0	48	77	3	90	18	111	375
Total	0	0	0	0	182	605	0	787	120	0	183	303	4	422	90	516	1606
Grand Total	0	0	0	0	331	1282	0	1613	269	0	323	592	4	729	180	913	3118
Apprch %	0	0	0		20.5	79.5	0		45.4	0	54.6		0.4	79.8	19.7		
Total %	0	0	0	0	10.6	41.1	0	51.7	8.6	0	10.4	19	0.1	23.4	5.8	29.3	
Passenger Vehicles	0	0	0	0	315	1248	0	1563	244	0	307	551	4	697	157	858	2972
% Passenger Vehicles	0	0	0	0	95.2	97.3	0	96.9	90.7	0	95	93.1	100	95.6	87.2	94	95.3
Large 2 Axle Vehicles	0	0	0	0	11	18	0	29	13	0	13	26	0	16	3	19	74
% Large 2 Axle Vehicles	0	0	0	0	3.3	1.4	0	1.8	4.8	0	4	4.4	0	2.2	1.7	2.1	2.4
3 Axle Vehicles	0	0	0	0	0	12	0	12	9	0	1	10	0	12	17	29	51
% 3 Axle Vehicles	0	0	0	0	0	0.9	0	0.7	3.3	0	0.3	1.7	0	1.6	9.4	3.2	1.6
4+ Axle Trucks	0	0	0	0	5	4	0	9	3	0	2	5	0	4	3	7	21
% 4+ Axle Trucks	0	0	0	0	1.5	0.3	0	0.6	1.1	0	0.6	0.8	0	0.5	1.7	0.8	0.7

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	30	169	0	199	**50**	0	**55**	**105**	0	79	**38**	117	421
07:45 AM	0	0	0	0	**58**	**223**	0	**281**	40	0	46	86	0	109	19	128	**495**
08:00 AM	0	0	0	0	47	157	0	204	41	0	49	90	0	118	22	140	434
08:15 AM	0	0	0	0	32	176	0	208	23	0	41	64	0	**123**	26	**149**	421
Total Volume	0	0	0	0	167	725	0	892	154	0	191	345	0	429	105	534	1771
% App. Total	0	0	0		18.7	81.3	0		44.6	0	55.4		0	80.3	19.7		
PHF	.000	.000	.000	.000	.720	.813	.000	.794	.770	.000	.868	.821	.000	.872	.691	.896	.894

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Upland
N/S: Central Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_UPL_Cen_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	30	169	0	199	**50**	0	**55**	**105**	0	79	**38**	117
+15 mins.	0	0	0	0	**58**	**223**	0	**281**	40	0	46	86	0	109	19	128
+30 mins.	0	0	0	0	47	157	0	204	41	0	49	90	0	118	22	140
+45 mins.	0	0	0	0	32	176	0	208	23	0	41	64	0	**123**	26	**149**
Total Volume	0	0	0	0	167	725	0	892	154	0	191	345	0	429	105	534
% App. Total	0	0	0		18.7	81.3	0		44.6	0	55.4		0	80.3	19.7	
PHF	.000	.000	.000	.000	.720	.813	.000	.794	.770	.000	.868	.821	.000	.872	.691	.896

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File Name : 01_UPL_Cen_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Passenger Vehicles

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	28	137	0	165	31	0	15	46	0	45	16	61	272
07:15 AM	0	0	0	0	30	140	0	170	22	0	22	44	0	70	12	82	296
07:30 AM	0	0	0	0	25	164	0	189	47	0	53	100	0	77	34	111	400
07:45 AM	0	0	0	0	55	217	0	272	37	0	43	80	0	107	17	124	476
Total	0	0	0	0	138	658	0	796	137	0	133	270	0	299	79	378	1444
08:00 AM	0	0	0	0	47	157	0	204	38	0	46	84	0	109	19	128	416
08:15 AM	0	0	0	0	30	172	0	202	20	0	39	59	0	112	23	135	396
08:30 AM	0	0	0	0	56	127	0	183	25	0	44	69	1	89	21	111	363
08:45 AM	0	0	0	0	44	134	0	178	24	0	45	69	3	88	15	106	353
Total	0	0	0	0	177	590	0	767	107	0	174	281	4	398	78	480	1528
Grand Total	0	0	0	0	315	1248	0	1563	244	0	307	551	4	697	157	858	2972
Apprch %	0	0	0		20.2	79.8	0		44.3	0	55.7		0.5	81.2	18.3		
Total %	0	0	0	0	10.6	42	0	52.6	8.2	0	10.3	18.5	0.1	23.5	5.3	28.9	

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	25	164	0	189	**47**	0	**53**	**100**	0	77	**34**	111	400
07:45 AM	0	0	0	0	**55**	**217**	0	**272**	37	0	43	80	0	107	17	124	**476**
08:00 AM	0	0	0	0	47	157	0	204	38	0	46	84	0	109	19	128	416
08:15 AM	0	0	0	0	30	172	0	202	20	0	39	59	0	**112**	23	**135**	396
Total Volume	0	0	0	0	157	710	0	867	142	0	181	323	0	405	93	498	1688
% App. Total	0	0	0		18.1	81.9	0		44	0	56		0	81.3	18.7		
PHF	.000	.000	.000	.000	.714	.818	.000	.797	.755	.000	.854	.808	.000	.904	.684	.922	.887

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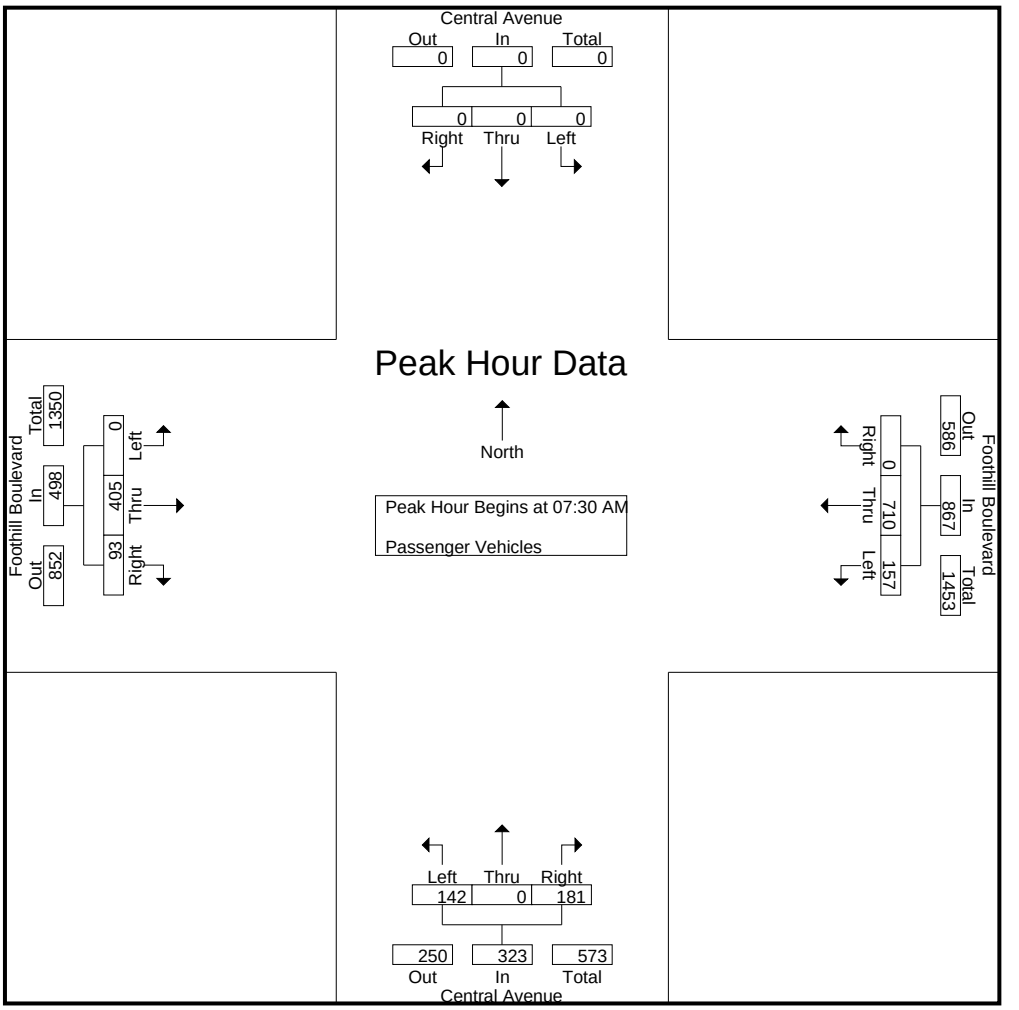
Page No : 2



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	25	164	0	189	**47**	0	**53**	**100**	0	77	**34**	111
+15 mins.	0	0	0	0	**55**	**217**	0	**272**	37	0	43	80	0	107	17	124
+30 mins.	0	0	0	0	47	157	0	204	38	0	46	84	0	109	19	128
+45 mins.	0	0	0	0	30	172	0	202	20	0	39	59	0	**112**	23	**135**
Total Volume	0	0	0	0	157	710	0	867	142	0	181	323	0	405	93	498
% App. Total	0	0	0		18.1	81.9	0		44	0	56		0	81.3	18.7	
PHF	.000	.000	.000	.000	.714	.818	.000	.797	.755	.000	.854	.808	.000	.904	.684	.922

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File Name : 01_UPL_Cen_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	2	1	0	3	3	0	1	4	0	0	1	1	8
07:15 AM	0	0	0	0	0	1	0	1	1	0	1	2	0	1	0	1	4
07:30 AM	0	0	0	0	4	3	0	7	0	0	2	2	0	0	0	0	9
07:45 AM	0	0	0	0	2	4	0	6	2	0	3	5	0	0	1	1	12
Total	0	0	0	0	8	9	0	17	6	0	7	13	0	1	2	3	33
08:00 AM	0	0	0	0	0	0	0	0	3	0	2	5	0	7	0	7	12
08:15 AM	0	0	0	0	1	2	0	3	2	0	2	4	0	6	0	6	13
08:30 AM	0	0	0	0	1	2	0	3	1	0	1	2	0	2	0	2	7
08:45 AM	0	0	0	0	1	5	0	6	1	0	1	2	0	0	1	1	9
Total	0	0	0	0	3	9	0	12	7	0	6	13	0	15	1	16	41
Grand Total	0	0	0	0	11	18	0	29	13	0	13	26	0	16	3	19	74
Apprch %	0	0	0		37.9	62.1	0		50	0	50		0	84.2	15.8		
Total %	0	0	0	0	14.9	24.3	0	39.2	17.6	0	17.6	35.1	0	21.6	4.1	25.7	

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	**4**	3	0	**7**	0	0	2	2	0	0	0	0	9
07:45 AM	0	0	0	0	2	**4**	0	6	2	0	**3**	**5**	0	0	**1**	1	12
08:00 AM	0	0	0	0	0	0	0	0	**3**	0	2	5	0	**7**	0	**7**	12
08:15 AM	0	0	0	0	1	2	0	3	2	0	2	4	0	6	0	6	**13**
Total Volume	0	0	0	0	7	9	0	16	7	0	9	16	0	13	1	14	46
% App. Total	0	0	0		43.8	56.2	0		43.8	0	56.2		0	92.9	7.1		
PHF	.000	.000	.000	.000	.438	.563	.000	.571	.583	.000	.750	.800	.000	.464	.250	.500	.885

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File Name : 01_UPL_Cen_Foot AM
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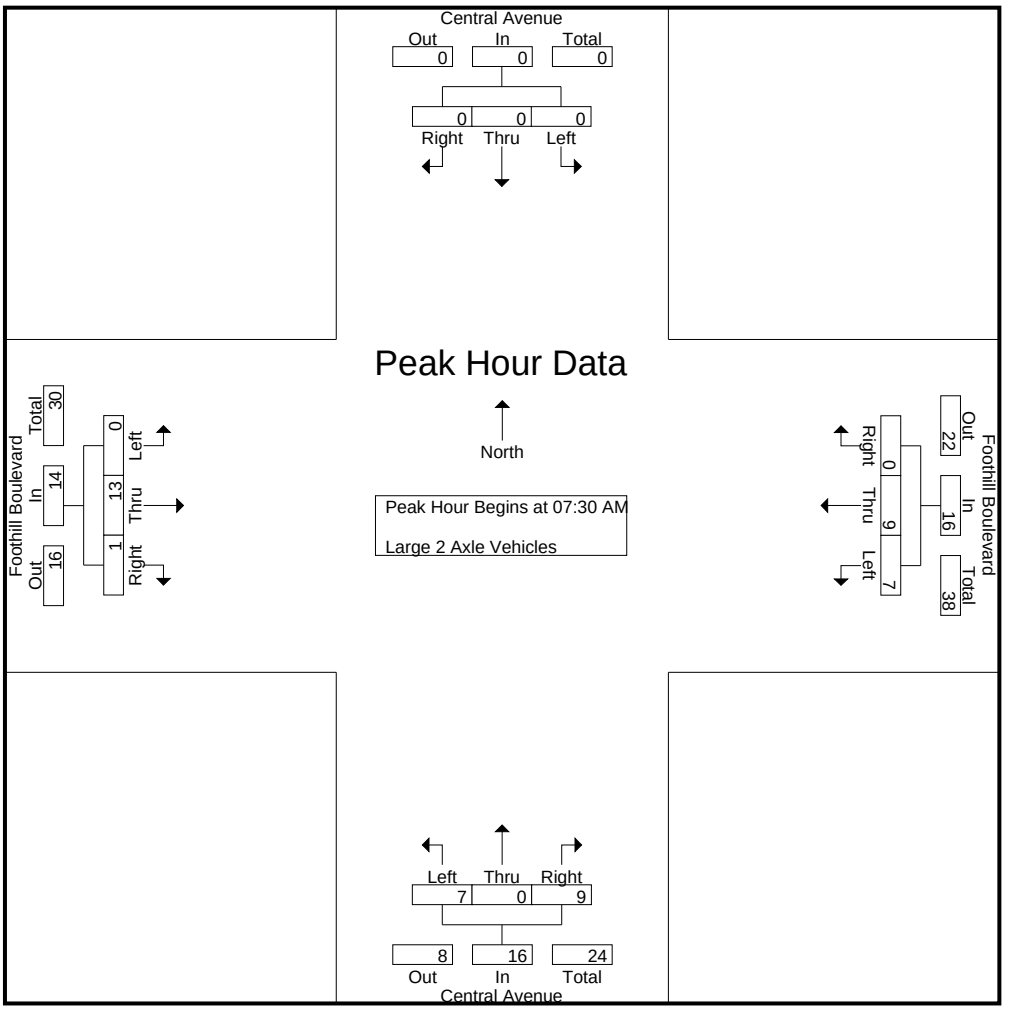

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	**4**	3	0	**7**	0	0	2	2	0	0	0	0
+15 mins.	0	0	0	0	2	**4**	0	6	2	0	**3**	**5**	0	0	**1**	1
+30 mins.	0	0	0	0	0	0	0	0	**3**	0	2	5	0	**7**	0	**7**
+45 mins.	0	0	0	0	1	2	0	3	2	0	2	4	0	6	0	6
Total Volume	0	0	0	0	7	9	0	16	7	0	9	16	0	13	1	14
% App. Total	0	0	0		43.8	56.2	0		43.8	0	56.2		0	92.9	7.1	
PHF	.000	.000	.000	.000	.438	.563	.000	.571	.583	.000	.750	.800	.000	.464	.250	.500

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City of Upland
N/S: Central Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_UPL_Cen_Foot AM
Site Code : 00322974
Start Date : 10/26/2022

Groups Printed- 3 Axle Vehicles

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	1	0	1	2	0	0	2	0	0	1	1	4
07:15 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	3	2	5	7
07:30 AM	0	0	0	0	0	2	0	2	2	0	0	2	0	2	3	5	9
07:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	2
Total	0	0	0	0	0	6	0	6	4	0	0	4	0	5	7	12	22
08:00 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	1	2	3	4
08:15 AM	0	0	0	0	0	2	0	2	1	0	0	1	0	4	3	7	10
08:30 AM	0	0	0	0	0	1	0	1	1	0	0	1	0	0	3	3	5
08:45 AM	0	0	0	0	0	3	0	3	3	0	0	3	0	2	2	4	10
Total	0	0	0	0	0	6	0	6	5	0	1	6	0	7	10	17	29
Grand Total	0	0	0	0	0	12	0	12	9	0	1	10	0	12	17	29	51
Apprch %	0	0	0		0	100	0		90	0	10		0	41.4	58.6		
Total %	0	0	0	0	0	23.5	0	23.5	17.6	0	2	19.6	0	23.5	33.3	56.9	

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	0	**2**	0	**2**	**2**	0	0	**2**	0	2	**3**	5	9
07:45 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1	2
08:00 AM	0	0	0	0	0	0	0	0	0	0	**1**	1	0	1	2	3	4
08:15 AM	0	0	0	0	0	2	0	2	1	0	0	1	0	**4**	3	**7**	**10**
Total Volume	0	0	0	0	0	5	0	5	3	0	1	4	0	7	9	16	25
% App. Total	0	0	0		0	100	0		75	0	25		0	43.8	56.2		
PHF	.000	.000	.000	.000	.000	.625	.000	.625	.375	.000	.250	.500	.000	.438	.750	.571	.625

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Weather: Clear

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Site Code : 00322974
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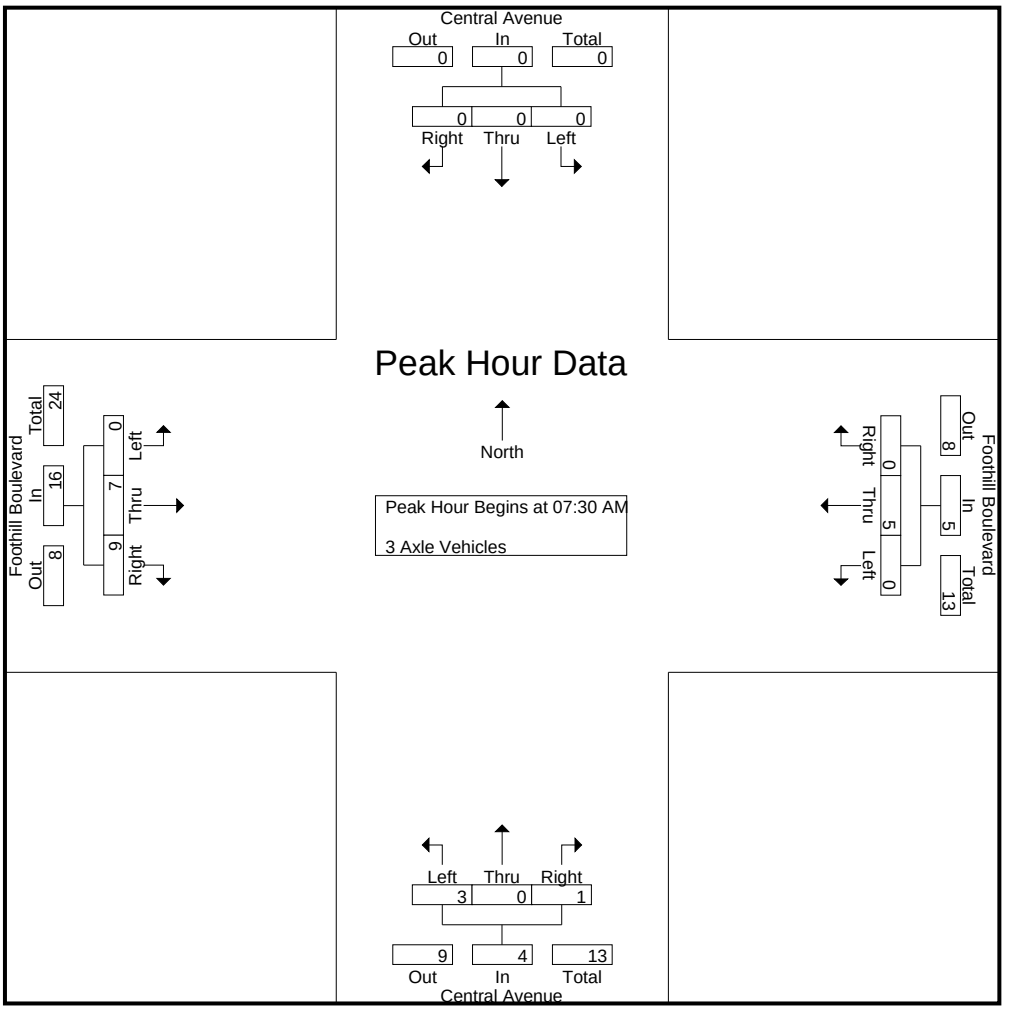

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	0	**2**	0	**2**	**2**	0	0	**2**	0	2	**3**	5
+15 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	1
+30 mins.	0	0	0	0	0	0	0	0	0	0	**1**	1	0	1	2	3
+45 mins.	0	0	0	0	0	2	0	2	1	0	0	1	0	**4**	3	**7**
Total Volume	0	0	0	0	0	5	0	5	3	0	1	4	0	7	9	16
% App. Total	0	0	0		0	100	0		75	0	25		0	43.8	56.2	
PHF	.000	.000	.000	.000	.000	.625	.000	.625	.375	.000	.250	.500	.000	.438	.750	.571

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Groups Printed- 4+ Axle Trucks

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	1	1	0	2	0	0	0	0	0	0	1	1	3
07:15 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2
07:30 AM	0	0	0	0	1	0	0	1	1	0	0	1	0	0	1	1	3
07:45 AM	0	0	0	0	1	1	0	2	1	0	0	1	0	2	0	2	5
Total	0	0	0	0	3	4	0	7	2	0	0	2	0	2	2	4	13
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
08:15 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1	2
08:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	0	1	0	2	3	0	0	0	0	3
Total	0	0	0	0	2	0	0	2	1	0	2	3	0	2	1	3	8
Grand Total	0	0	0	0	5	4	0	9	3	0	2	5	0	4	3	7	21
Apprch %	0	0	0		55.6	44.4	0		60	0	40		0	57.1	42.9		
Total %	0	0	0	0	23.8	19	0	42.9	14.3	0	9.5	23.8	0	19	14.3	33.3	

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	0	0	0	**1**	0	0	1	**1**	0	0	**1**	0	0	**1**	1	3
07:45 AM	0	0	0	0	1	**1**	0	**2**	1	0	0	1	0	**2**	0	**2**	**5**
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2
08:15 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1	2
Total Volume	0	0	0	0	3	1	0	4	2	0	0	2	0	4	2	6	12
% App. Total	0	0	0		75	25	0		100	0	0		0	66.7	33.3		
PHF	.000	.000	.000	.000	.750	.250	.000	.500	.500	.000	.000	.500	.000	.500	.500	.750	.600

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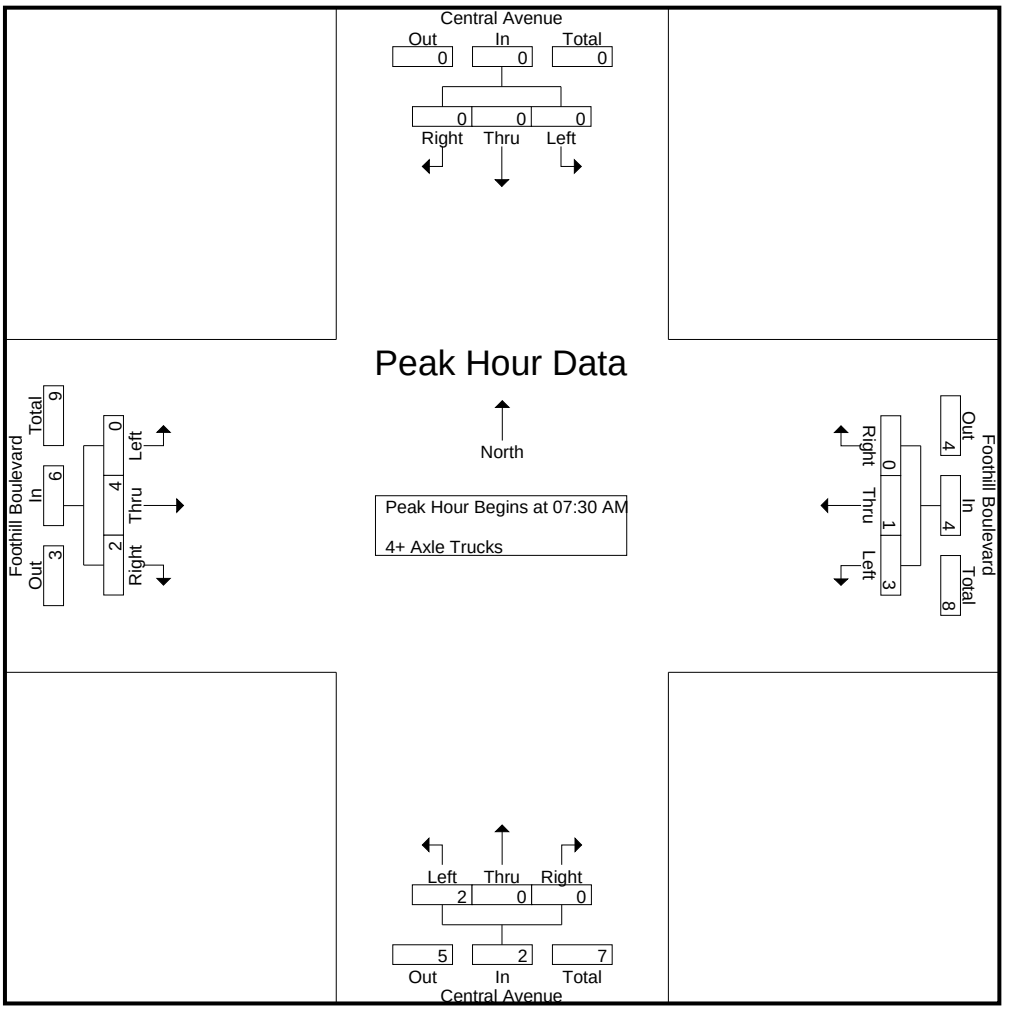

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	0	0	0	**1**	0	0	1	**1**	0	0	**1**	0	0	**1**	1
+15 mins.	0	0	0	0	1	**1**	0	**2**	1	0	0	1	0	**2**	0	**2**
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
+45 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1
Total Volume	0	0	0	0	3	1	0	4	2	0	0	2	0	4	2	6
% App. Total	0	0	0		75	25	0		100	0	0		0	66.7	33.3	
PHF	.000	.000	.000	.000	.750	.250	.000	.500	.500	.000	.000	.500	.000	.500	.500	.750

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File Name : 01_UPL_Cen_Foot PM
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	59	137	0	196	35	0	99	134	1	263	42	306	636
04:15 PM	0	0	0	0	44	142	0	186	38	0	95	133	3	234	31	268	587
04:30 PM	0	0	0	0	47	167	0	214	20	0	86	106	3	230	39	272	592
04:45 PM	0	0	0	0	66	124	0	190	28	0	87	115	1	253	25	279	584
Total	0	0	0	0	216	570	0	786	121	0	367	488	8	980	137	1125	2399
05:00 PM	1	0	0	1	49	127	0	176	37	0	94	131	1	254	44	299	607
05:15 PM	0	0	0	0	44	141	0	185	32	0	93	125	0	296	30	326	636
05:30 PM	0	0	0	0	55	148	0	203	32	0	71	103	2	234	41	277	583
05:45 PM	0	0	0	0	47	146	0	193	41	0	69	110	1	235	30	266	569
Total	1	0	0	1	195	562	0	757	142	0	327	469	4	1019	145	1168	2395
Grand Total	1	0	0	1	411	1132	0	1543	263	0	694	957	12	1999	282	2293	4794
Apprch %	100	0	0		26.6	73.4	0		27.5	0	72.5		0.5	87.2	12.3		
Total %	0	0	0	0	8.6	23.6	0	32.2	5.5	0	14.5	20	0.3	41.7	5.9	47.8	
Passenger Vehicles	1	0	0	1	401	1125	0	1526	260	0	681	941	12	1984	278	2274	4742
% Passenger Vehicles	100	0	0	100	97.6	99.4	0	98.9	98.9	0	98.1	98.3	100	99.2	98.6	99.2	98.9
Large 2 Axle Vehicles	0	0	0	0	10	6	0	16	1	0	12	13	0	12	4	16	45
% Large 2 Axle Vehicles	0	0	0	0	2.4	0.5	0	1	0.4	0	1.7	1.4	0	0.6	1.4	0.7	0.9
3 Axle Vehicles	0	0	0	0	0	0	0	0	2	0	0	2	0	3	0	3	5
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	0.8	0	0	0.2	0	0.2	0	0.1	0.1
4+ Axle Trucks	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	2
% 4+ Axle Trucks	0	0	0	0	0	0.1	0	0.1	0	0	0.1	0.1	0	0	0	0	0

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	47	**167**	0	**214**	20	0	86	106	**3**	230	39	272	592
04:45 PM	0	0	0	0	**66**	124	0	190	28	0	87	115	1	253	25	279	584
05:00 PM	**1**	0	0	**1**	49	127	0	176	**37**	0	**94**	**131**	1	254	**44**	299	607
05:15 PM	0	0	0	0	44	141	0	185	32	0	93	125	0	**296**	30	**326**	**636**
Total Volume	1	0	0	1	206	559	0	765	117	0	360	477	5	1033	138	1176	2419
% App. Total	100	0	0		26.9	73.1	0		24.5	0	75.5		0.4	87.8	11.7		
PHF	.250	.000	.000	.250	.780	.837	.000	.894	.791	.000	.957	.910	.417	.872	.784	.902	.951

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File Name : 01_UPL_Cen_Foot PM
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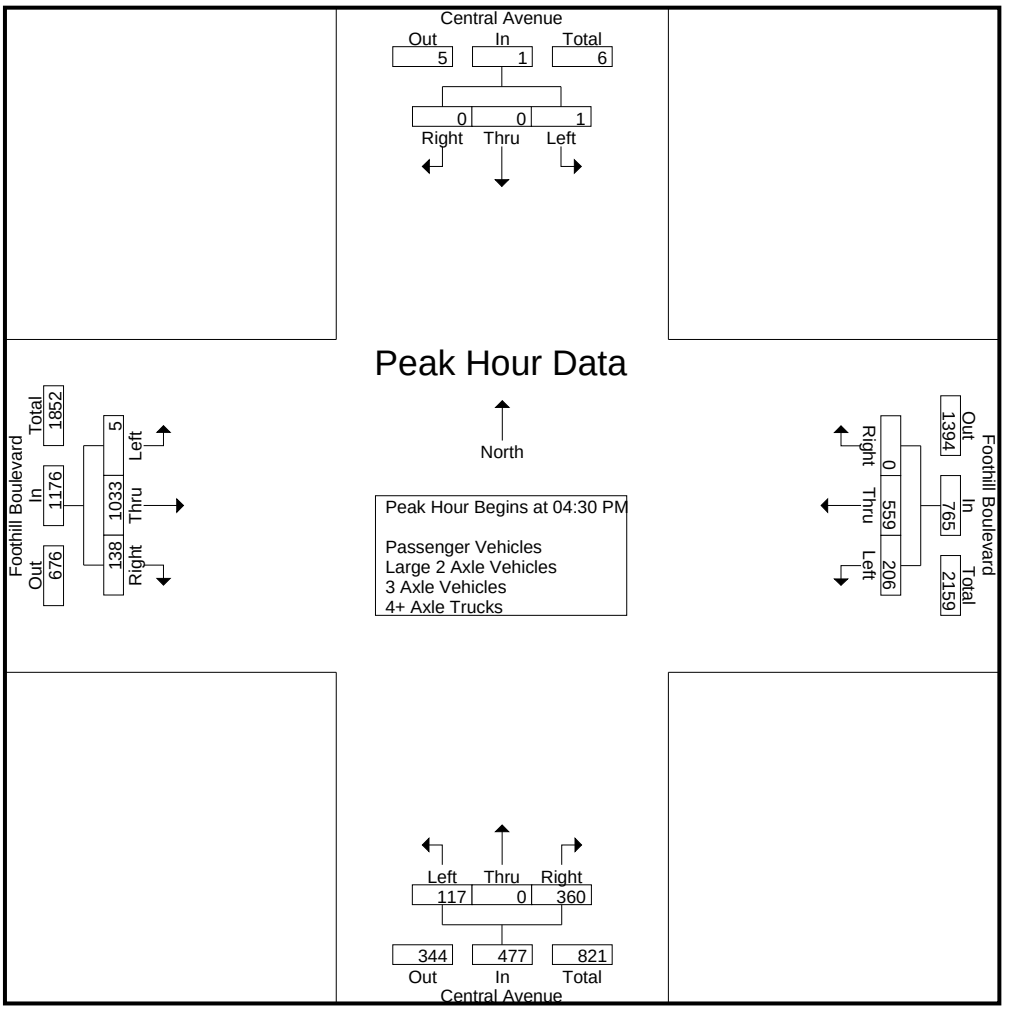

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:00 PM				04:00 PM				04:45 PM			
+0 mins.	0	0	0	0	59	137	0	196	35	0	**99**	**134**	1	253	25	279
+15 mins.	0	0	0	0	44	142	0	186	**38**	0	95	133	1	254	**44**	299
+30 mins.	0	0	0	0	47	**167**	0	**214**	20	0	86	106	0	**296**	30	**326**
+45 mins.	**1**	0	0	**1**	**66**	124	0	190	28	0	87	115	**2**	234	41	277
Total Volume	1	0	0	1	216	570	0	786	121	0	367	488	4	1037	140	1181
% App. Total	100	0	0		27.5	72.5	0		24.8	0	75.2		0.3	87.8	11.9	
PHF	.250	.000	.000	.250	.818	.853	.000	.918	.796	.000	.927	.910	.500	.876	.795	.906

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File Name : 01_UPL_Cen_Foot PM
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Groups Printed- Passenger Vehicles

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	59	135	0	194	33	0	95	128	1	259	40	300	622
04:15 PM	0	0	0	0	42	140	0	182	38	0	95	133	3	232	30	265	580
04:30 PM	0	0	0	0	46	166	0	212	20	0	85	105	3	227	39	269	586
04:45 PM	0	0	0	0	65	124	0	189	27	0	86	113	1	252	25	278	580
Total	0	0	0	0	212	565	0	777	118	0	361	479	8	970	134	1112	2368
05:00 PM	1	0	0	1	47	127	0	174	37	0	92	129	1	253	44	298	602
05:15 PM	0	0	0	0	44	140	0	184	32	0	91	123	0	295	29	324	631
05:30 PM	0	0	0	0	53	147	0	200	32	0	69	101	2	232	41	275	576
05:45 PM	0	0	0	0	45	146	0	191	41	0	68	109	1	234	30	265	565
Total	1	0	0	1	189	560	0	749	142	0	320	462	4	1014	144	1162	2374
Grand Total	1	0	0	1	401	1125	0	1526	260	0	681	941	12	1984	278	2274	4742
Apprch %	100	0	0		26.3	73.7	0		27.6	0	72.4		0.5	87.2	12.2		
Total %	0	0	0	0	8.5	23.7	0	32.2	5.5	0	14.4	19.8	0.3	41.8	5.9	48	

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	46	**166**	0	**212**	20	0	85	105	**3**	227	39	269	586
04:45 PM	0	0	0	0	**65**	124	0	189	27	0	86	113	1	252	25	278	580
05:00 PM	**1**	0	0	**1**	47	127	0	174	**37**	0	**92**	**129**	1	253	**44**	298	602
05:15 PM	0	0	0	0	44	140	0	184	32	0	91	123	0	**295**	29	**324**	**631**
Total Volume	1	0	0	1	202	557	0	759	116	0	354	470	5	1027	137	1169	2399
% App. Total	100	0	0		26.6	73.4	0		24.7	0	75.3		0.4	87.9	11.7		
PHF	.250	.000	.000	.250	.777	.839	.000	.895	.784	.000	.962	.911	.417	.870	.778	.902	.950

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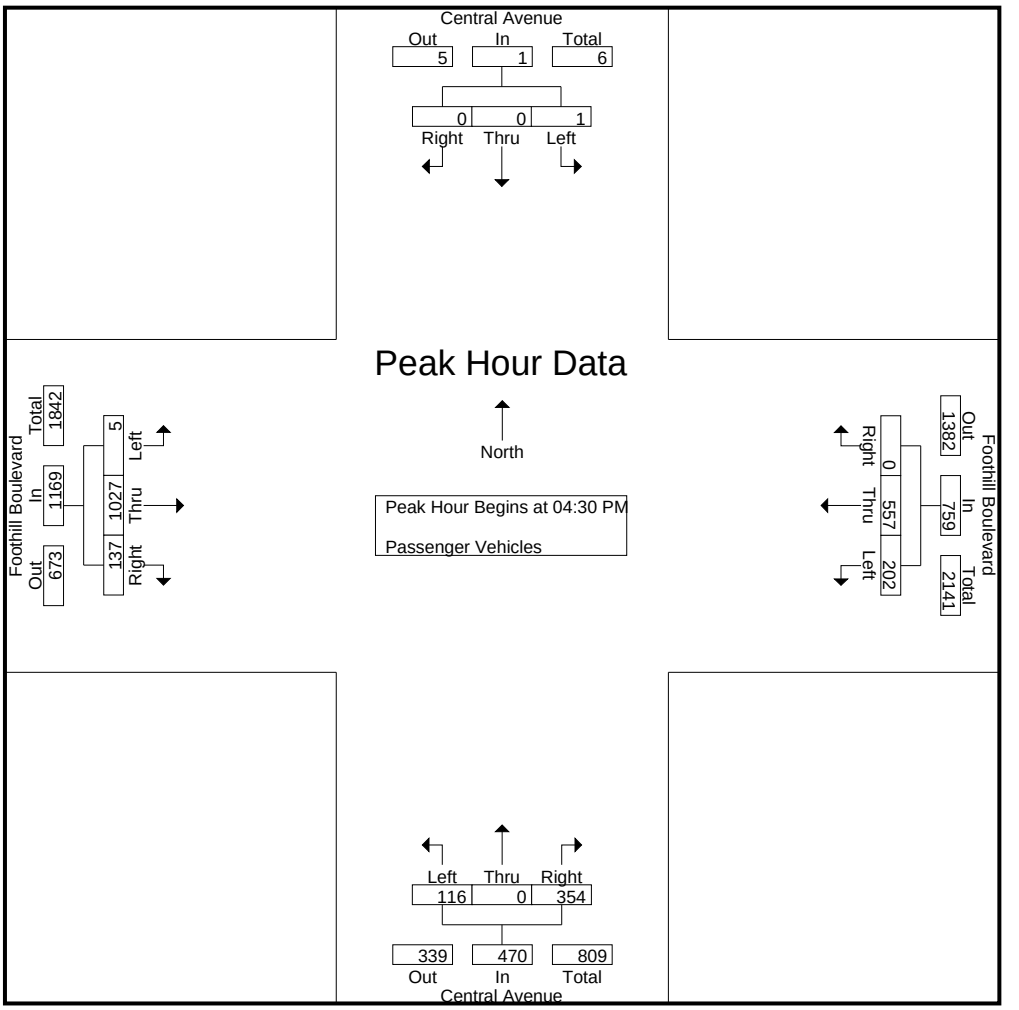

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	46	**166**	0	**212**	20	0	85	105	**3**	227	39	269
+15 mins.	0	0	0	0	**65**	124	0	189	27	0	86	113	1	252	25	278
+30 mins.	**1**	0	0	**1**	47	127	0	174	**37**	0	**92**	**129**	1	253	**44**	298
+45 mins.	0	0	0	0	44	140	0	184	32	0	91	123	0	**295**	29	**324**
Total Volume	1	0	0	1	202	557	0	759	116	0	354	470	5	1027	137	1169
% App. Total	100	0	0		26.6	73.4	0		24.7	0	75.3		0.4	87.9	11.7	
PHF	.250	.000	.000	.250	.777	.839	.000	.895	.784	.000	.962	.911	.417	.870	.778	.902

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Groups Printed- Large 2 Axle Vehicles

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	1	1	0	3	4	0	2	2	4	9
04:15 PM	0	0	0	0	2	2	0	4	0	0	0	0	0	2	1	3	7
04:30 PM	0	0	0	0	1	1	0	2	0	0	1	1	0	3	0	3	6
04:45 PM	0	0	0	0	1	0	0	1	0	0	1	1	0	1	0	1	3
Total	0	0	0	0	4	4	0	8	1	0	5	6	0	8	3	11	25
05:00 PM	0	0	0	0	2	0	0	2	0	0	2	2	0	1	0	1	5
05:15 PM	0	0	0	0	0	1	0	1	0	0	2	2	0	1	1	2	5
05:30 PM	0	0	0	0	2	1	0	3	0	0	2	2	0	1	0	1	6
05:45 PM	0	0	0	0	2	0	0	2	0	0	1	1	0	1	0	1	4
Total	0	0	0	0	6	2	0	8	0	0	7	7	0	4	1	5	20
Grand Total	0	0	0	0	10	6	0	16	1	0	12	13	0	12	4	16	45
Apprch %	0	0	0		62.5	37.5	0		7.7	0	92.3		0	75	25		
Total %	0	0	0	0	22.2	13.3	0	35.6	2.2	0	26.7	28.9	0	26.7	8.9	35.6	

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	1	**1**	0	**2**	0	0	1	1	0	**3**	0	**3**	**6**
04:45 PM	0	0	0	0	1	0	0	1	0	0	1	1	0	1	0	1	3
05:00 PM	0	0	0	0	**2**	0	0	2	0	0	**2**	**2**	0	1	0	1	5
05:15 PM	0	0	0	0	0	1	0	1	0	0	2	2	0	1	**1**	2	5
Total Volume	0	0	0	0	4	2	0	6	0	0	6	6	0	6	1	7	19
% App. Total	0	0	0		66.7	33.3	0		0	0	100		0	85.7	14.3		
PHF	.000	.000	.000	.000	.500	.500	.000	.750	.000	.000	.750	.750	.000	.500	.250	.583	.792

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City of Upland
N/S: Central Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 01_UPL_Cen_Foot PM
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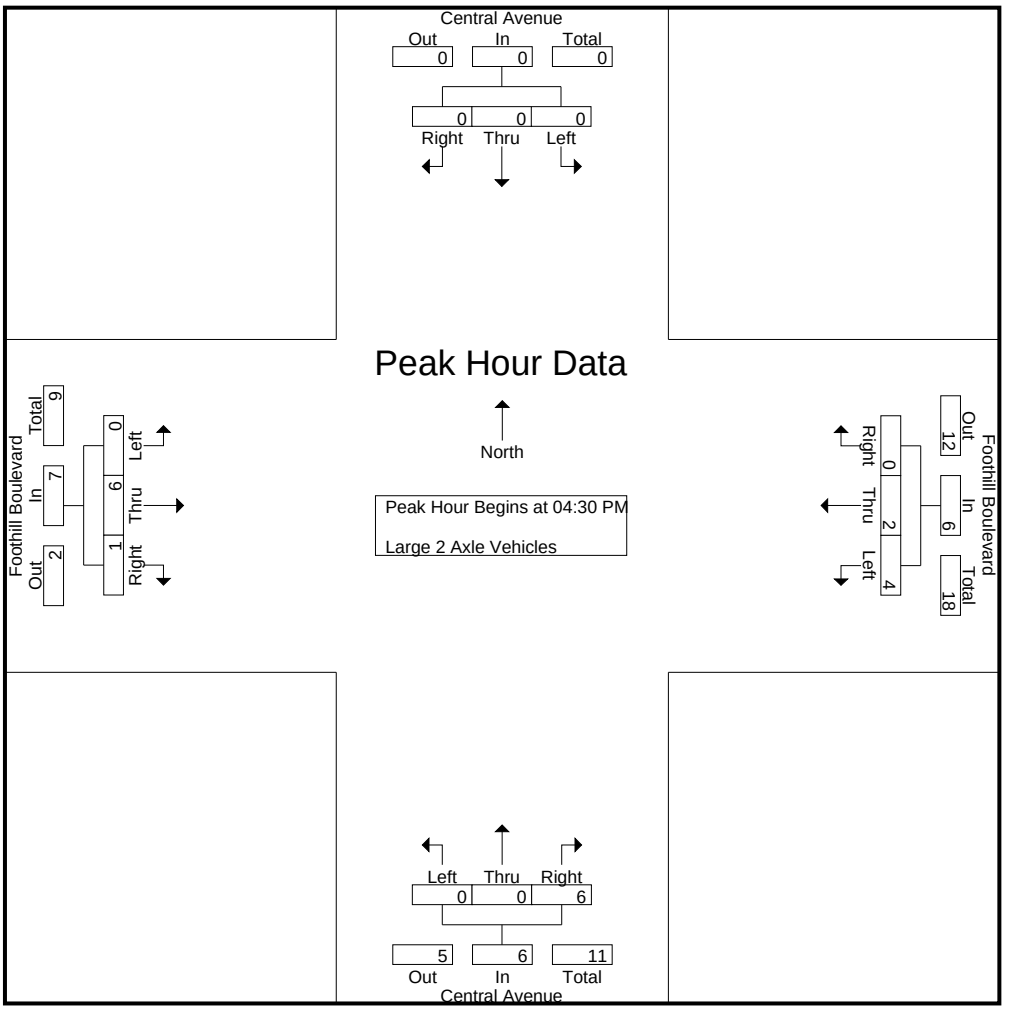

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	1	**1**	0	**2**	0	0	1	1	0	**3**	0	**3**
+15 mins.	0	0	0	0	1	0	0	1	0	0	1	1	0	1	0	1
+30 mins.	0	0	0	0	**2**	0	0	2	0	0	**2**	**2**	0	1	0	1
+45 mins.	0	0	0	0	0	1	0	1	0	0	2	2	0	1	**1**	2
Total Volume	0	0	0	0	4	2	0	6	0	0	6	6	0	6	1	7
% App. Total	0	0	0		66.7	33.3	0		0	0	100		0	85.7	14.3	
PHF	.000	.000	.000	.000	.500	.500	.000	.750	.000	.000	.750	.750	.000	.500	.250	.583

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Groups Printed- 3 Axle Vehicles

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	2	3
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	2	0	0	2	0	2	0	2	4
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Grand Total	0	0	0	0	0	0	0	0	2	0	0	2	0	3	0	3	5
Apprch %	0	0	0		0	0	0		100	0	0		0	100	0		
Total %	0	0	0	0	0	0	0	0	40	0	0	40	0	60	0	60	

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	**1**	0	0	**1**	0	0	0	0	**1**
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
% App. Total	0	0	0		0	0	0		100	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.250

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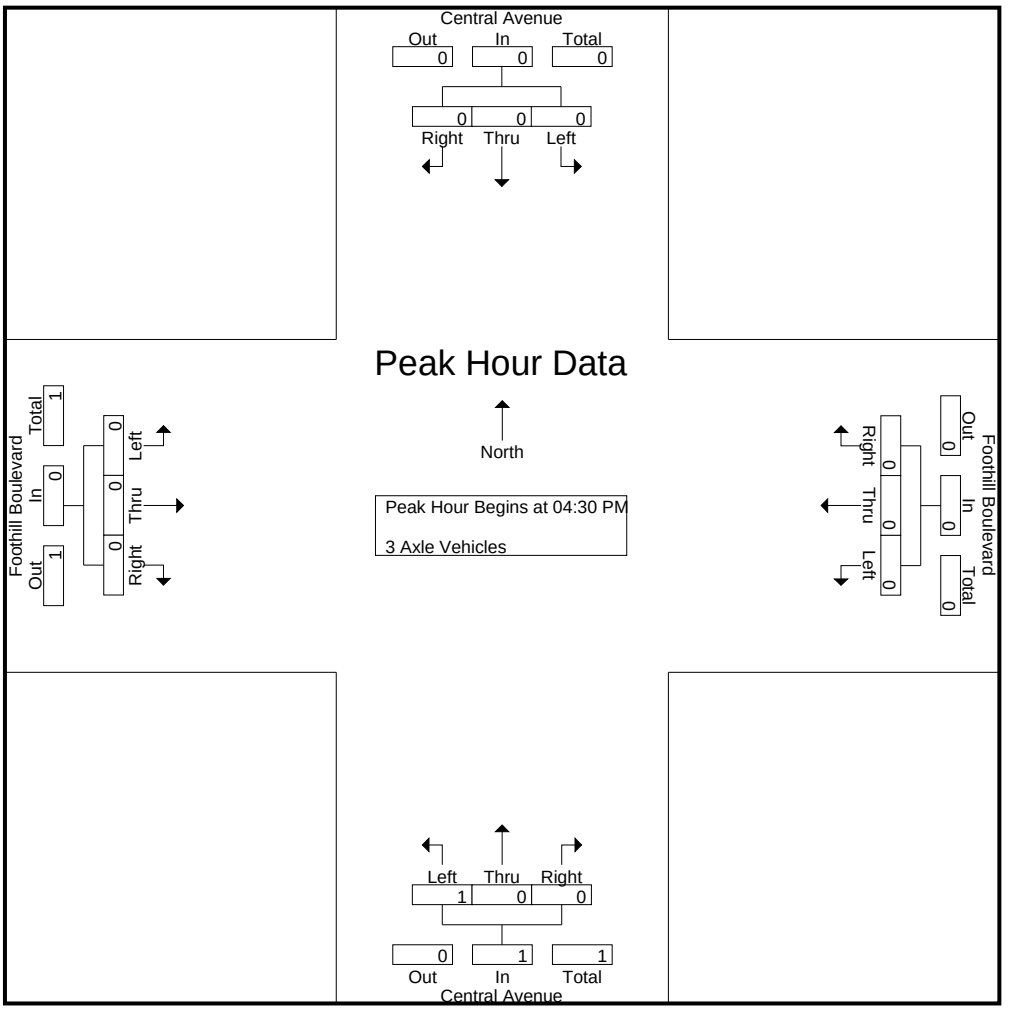

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	**1**	0	0	**1**	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0
% App. Total	0	0	0		0	0	0		100	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000

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Groups Printed- 4+ Axle Trucks

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	1	0	1	0	0	1	1	0	0	0	0	2
Apprch %	0	0	0		0	100	0		0	0	100		0	0	0		
Total %	0	0	0	0	0	50	0	50	0	0	50	50	0	0	0	0	

	Central Avenue Southbound				Foothill Boulevard Westbound				Central Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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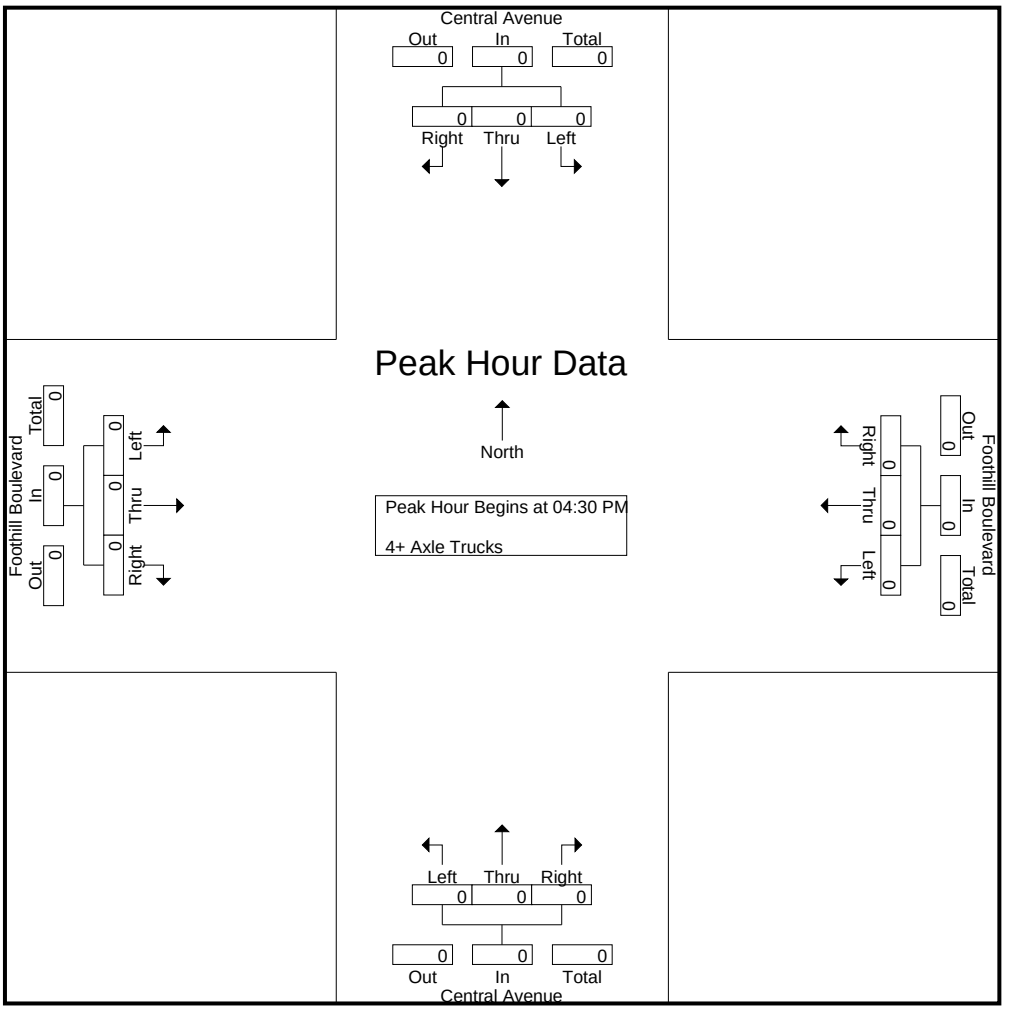

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Location: Upland
N/S: Central Avenue
E/W: Foothill Boulevard

Date: 10/26/2022
Day: Wednesday

PEDESTRIANS

	North Leg Central Avenue	East Leg Foothill Boulevard	South Leg Central Avenue	West Leg Foothill Boulevard	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	2	0	2
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	1	0	1
8:30 AM	1	0	1	1	3
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	1	0	4	1	6

	North Leg Central Avenue	East Leg Foothill Boulevard	South Leg Central Avenue	West Leg Foothill Boulevard	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	2	0	1	0	3
4:15 PM	1	0	0	0	1
4:30 PM	0	0	1	2	3
4:45 PM	1	0	0	1	2
5:00 PM	0	0	2	0	2
5:15 PM	1	0	0	0	1
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	5	0	4	3	12

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Location: Upland
N/S: Central Avenue
E/W: Foothill Boulevard

Date: 10/26/2022
Day: Wednesday

BICYCLES

	Southbound Central Avenue			Westbound Foothill Boulevard			Northbound Central Avenue			Eastbound Foothill Boulevard			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	1	0	0	0	0	0	2	0	3
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
8:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL VOLUMES:	0	0	0	0	5	0	0	0	0	0	3	0	8

	Southbound Central Avenue			Westbound Foothill Boulevard			Northbound Central Avenue			Eastbound Foothill Boulevard			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
4:45 PM	0	0	0	0	2	0	0	0	1	0	2	0	5
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	1	0	0	0	0	0	0	0	0	1	0	2
5:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	1
5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL VOLUMES:	0	1	0	0	3	0	1	0	1	0	5	0	11

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City of Upland
N/S: Central Avenue
E/W: 11th Street
Weather: Clear

File Name : 02_UPL_Cen_11th AM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	5	44	3	52	11	18	7	36	6	40	4	50	2	6	7	15	153
07:15 AM	6	35	4	45	17	13	1	31	10	50	9	69	2	7	9	18	163
07:30 AM	4	52	4	60	20	16	4	40	8	88	21	117	4	10	7	21	238
07:45 AM	4	61	11	76	11	18	3	32	10	92	36	138	4	13	6	23	269
Total	19	192	22	233	59	65	15	139	34	270	70	374	12	36	29	77	823
08:00 AM	6	63	7	76	16	20	3	39	10	86	23	119	5	7	6	18	252
08:15 AM	8	44	3	55	12	16	3	31	7	68	13	88	2	14	6	22	196
08:30 AM	6	72	3	81	12	8	6	26	6	64	16	86	1	8	4	13	206
08:45 AM	8	54	3	65	12	12	9	33	9	89	25	123	3	8	5	16	237
Total	28	233	16	277	52	56	21	129	32	307	77	416	11	37	21	69	891
Grand Total	47	425	38	510	111	121	36	268	66	577	147	790	23	73	50	146	1714
Apprch %	9.2	83.3	7.5		41.4	45.1	13.4		8.4	73	18.6		15.8	50	34.2		
Total %	2.7	24.8	2.2	29.8	6.5	7.1	2.1	15.6	3.9	33.7	8.6	46.1	1.3	4.3	2.9	8.5	
Passenger Vehicles	45	390	35	470	98	117	36	251	64	537	143	744	21	70	48	139	1604
% Passenger Vehicles	95.7	91.8	92.1	92.2	88.3	96.7	100	93.7	97	93.1	97.3	94.2	91.3	95.9	96	95.2	93.6
Large 2 Axle Vehicles	2	12	1	15	10	4	0	14	0	24	3	27	2	2	2	6	62
% Large 2 Axle Vehicles	4.3	2.8	2.6	2.9	9	3.3	0	5.2	0	4.2	2	3.4	8.7	2.7	4	4.1	3.6
3 Axle Vehicles	0	17	1	18	2	0	0	2	1	12	0	13	0	1	0	1	34
% 3 Axle Vehicles	0	4	2.6	3.5	1.8	0	0	0.7	1.5	2.1	0	1.6	0	1.4	0	0.7	2
4+ Axle Trucks	0	6	1	7	1	0	0	1	1	4	1	6	0	0	0	0	14
% 4+ Axle Trucks	0	1.4	2.6	1.4	0.9	0	0	0.4	1.5	0.7	0.7	0.8	0	0	0	0	0.8

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	4	52	4	60	**20**	16	**4**	**40**	8	88	21	117	4	10	**7**	21	238
07:45 AM	4	61	**11**	**76**	11	18	3	32	**10**	**92**	**36**	**138**	4	13	6	**23**	**269**
08:00 AM	6	**63**	7	76	16	**20**	3	39	10	86	23	119	**5**	7	6	18	252
08:15 AM	**8**	44	3	55	12	16	3	31	7	68	13	88	2	**14**	6	22	196
Total Volume	22	220	25	267	59	70	13	142	35	334	93	462	15	44	25	84	955
% App. Total	8.2	82.4	9.4		41.5	49.3	9.2		7.6	72.3	20.1		17.9	52.4	29.8		
PHF	.688	.873	.568	.878	.738	.875	.813	.888	.875	.908	.646	.837	.750	.786	.893	.913	.888

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City of Upland
N/S: Central Avenue
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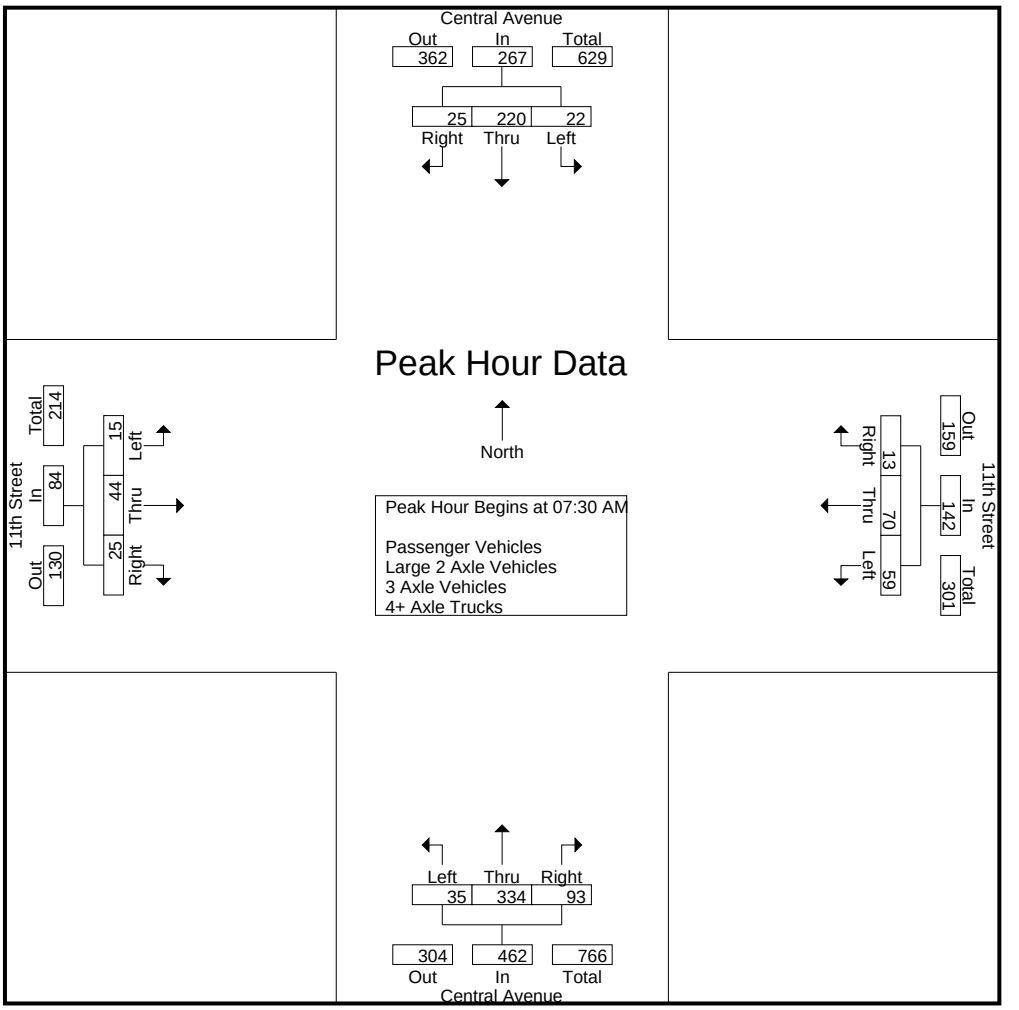

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:15 AM				07:30 AM				07:30 AM			
+0 mins.	4	61	**11**	76	17	13	1	31	8	88	21	117	4	10	**7**	21
+15 mins.	6	63	7	76	**20**	16	**4**	**40**	**10**	**92**	**36**	**138**	4	13	6	**23**
+30 mins.	**8**	44	3	55	11	18	3	32	10	86	23	119	**5**	7	6	18
+45 mins.	6	**72**	3	**81**	16	**20**	3	39	7	68	13	88	2	**14**	6	22
Total Volume	24	240	24	288	64	67	11	142	35	334	93	462	15	44	25	84
% App. Total	8.3	83.3	8.3		45.1	47.2	7.7		7.6	72.3	20.1		17.9	52.4	29.8	
PHF	.750	.833	.545	.889	.800	.838	.688	.888	.875	.908	.646	.837	.750	.786	.893	.913

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City of Upland
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E/W: 11th Street
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File Name : 02_UPL_Cen_11th AM
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Groups Printed- Passenger Vehicles

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	4	39	3	46	8	16	7	31	6	37	4	47	2	6	7	15	139
07:15 AM	6	33	4	43	14	13	1	28	9	49	7	65	2	7	7	16	152
07:30 AM	4	45	2	51	18	15	4	37	8	83	21	112	4	9	7	20	220
07:45 AM	4	57	11	72	10	18	3	31	9	86	35	130	4	13	6	23	256
Total	18	174	20	212	50	62	15	127	32	255	67	354	12	35	27	74	767
08:00 AM	6	61	6	73	15	19	3	37	10	79	23	112	5	5	6	16	238
08:15 AM	7	39	3	49	11	16	3	30	7	64	13	84	1	14	6	21	184
08:30 AM	6	66	3	75	12	8	6	26	6	61	15	82	1	8	4	13	196
08:45 AM	8	50	3	61	10	12	9	31	9	78	25	112	2	8	5	15	219
Total	27	216	15	258	48	55	21	124	32	282	76	390	9	35	21	65	837
Grand Total	45	390	35	470	98	117	36	251	64	537	143	744	21	70	48	139	1604
Apprch %	9.6	83	7.4		39	46.6	14.3		8.6	72.2	19.2		15.1	50.4	34.5		
Total %	2.8	24.3	2.2	29.3	6.1	7.3	2.2	15.6	4	33.5	8.9	46.4	1.3	4.4	3	8.7	

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	4	45	2	51	**18**	15	**4**	**37**	8	83	21	112	4	9	**7**	20	220
07:45 AM	4	57	**11**	72	10	18	3	31	9	**86**	**35**	**130**	4	13	6	**23**	**256**
08:00 AM	6	**61**	6	**73**	15	**19**	3	37	**10**	79	23	112	**5**	5	6	16	238
08:15 AM	**7**	39	3	49	11	16	3	30	7	64	13	84	1	**14**	6	21	184
Total Volume	21	202	22	245	54	68	13	135	34	312	92	438	14	41	25	80	898
% App. Total	8.6	82.4	9		40	50.4	9.6		7.8	71.2	21		17.5	51.2	31.2		
PHF	.750	.828	.500	.839	.750	.895	.813	.912	.850	.907	.657	.842	.700	.732	.893	.870	.877

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City of Upland
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Weather: Clear

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Site Code : 00322974
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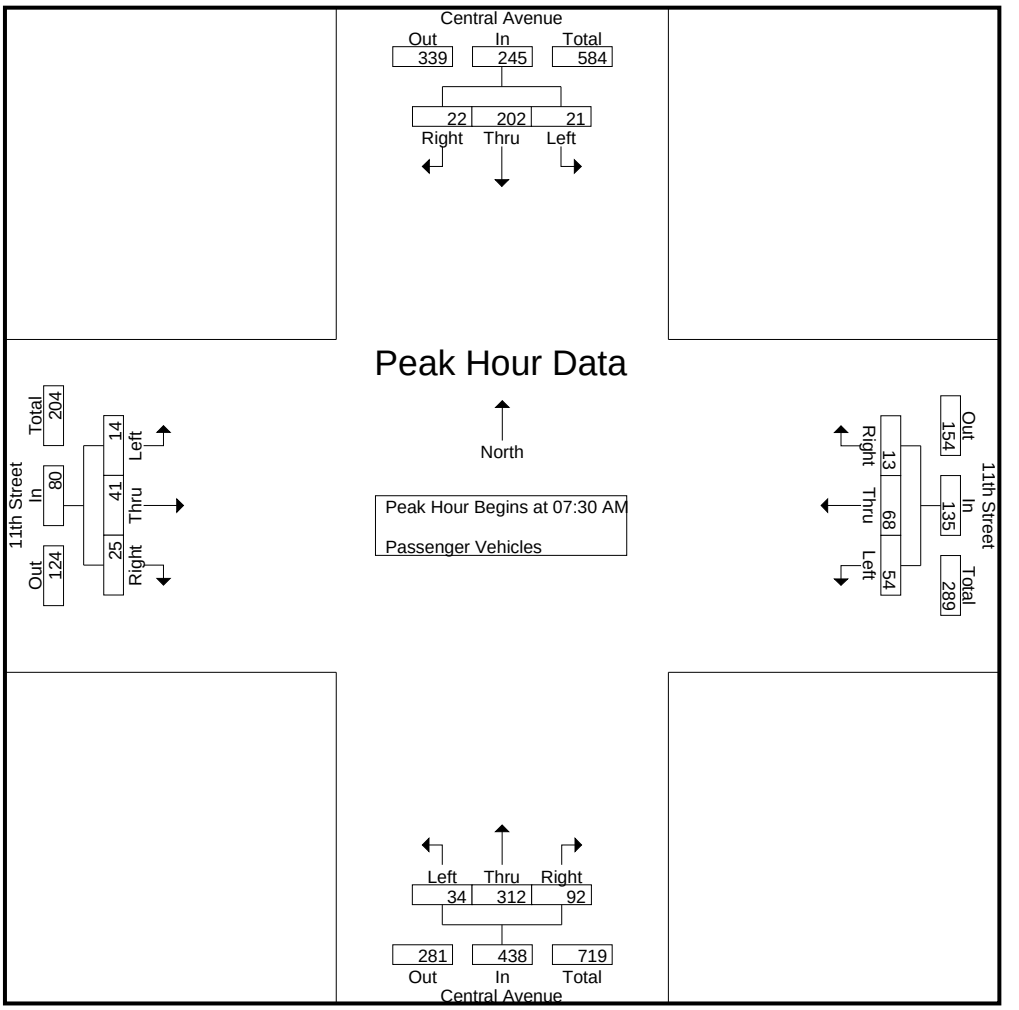

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	4	45	2	51	**18**	15	**4**	**37**	8	83	21	112	4	9	**7**	20
+15 mins.	4	57	**11**	72	10	18	3	31	9	**86**	**35**	**130**	4	13	6	**23**
+30 mins.	6	**61**	6	**73**	15	**19**	3	37	**10**	79	23	112	**5**	5	6	16
+45 mins.	**7**	39	3	49	11	16	3	30	7	64	13	84	1	**14**	6	21
Total Volume	21	202	22	245	54	68	13	135	34	312	92	438	14	41	25	80
% App. Total	8.6	82.4	9		40	50.4	9.6		7.8	71.2	21		17.5	51.2	31.2	
PHF	.750	.828	.500	.839	.750	.895	.813	.912	.850	.907	.657	.842	.700	.732	.893	.870

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Groups Printed- Large 2 Axle Vehicles

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	1	2	0	3	2	2	0	4	0	2	0	2	0	0	0	0	9
07:15 AM	0	0	0	0	3	0	0	3	0	1	1	2	0	0	2	2	7
07:30 AM	0	3	1	4	1	1	0	2	0	2	0	2	0	0	0	0	8
07:45 AM	0	2	0	2	0	0	0	0	0	5	1	6	0	0	0	0	8
Total	1	7	1	9	6	3	0	9	0	10	2	12	0	0	2	2	32
08:00 AM	0	0	0	0	1	1	0	2	0	5	0	5	0	2	0	2	9
08:15 AM	1	1	0	2	1	0	0	1	0	3	0	3	1	0	0	1	7
08:30 AM	0	2	0	2	0	0	0	0	0	2	1	3	0	0	0	0	5
08:45 AM	0	2	0	2	2	0	0	2	0	4	0	4	1	0	0	1	9
Total	1	5	0	6	4	1	0	5	0	14	1	15	2	2	0	4	30
Grand Total	2	12	1	15	10	4	0	14	0	24	3	27	2	2	2	6	62
Apprch %	13.3	80	6.7		71.4	28.6	0		0	88.9	11.1		33.3	33.3	33.3		
Total %	3.2	19.4	1.6	24.2	16.1	6.5	0	22.6	0	38.7	4.8	43.5	3.2	3.2	3.2	9.7	

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	**3**	**1**	**4**	**1**	**1**	0	**2**	0	2	0	2	0	0	0	0	8
07:45 AM	0	2	0	2	0	0	0	0	0	**5**	**1**	**6**	0	0	0	0	8
08:00 AM	0	0	0	0	1	1	0	2	0	5	0	5	0	**2**	0	**2**	**9**
08:15 AM	**1**	1	0	2	1	0	0	1	0	3	0	3	**1**	0	0	1	7
Total Volume	1	6	1	8	3	2	0	5	0	15	1	16	1	2	0	3	32
% App. Total	12.5	75	12.5		60	40	0		0	93.8	6.2		33.3	66.7	0		
PHF	.250	.500	.250	.500	.750	.500	.000	.625	.000	.750	.250	.667	.250	.250	.000	.375	.889

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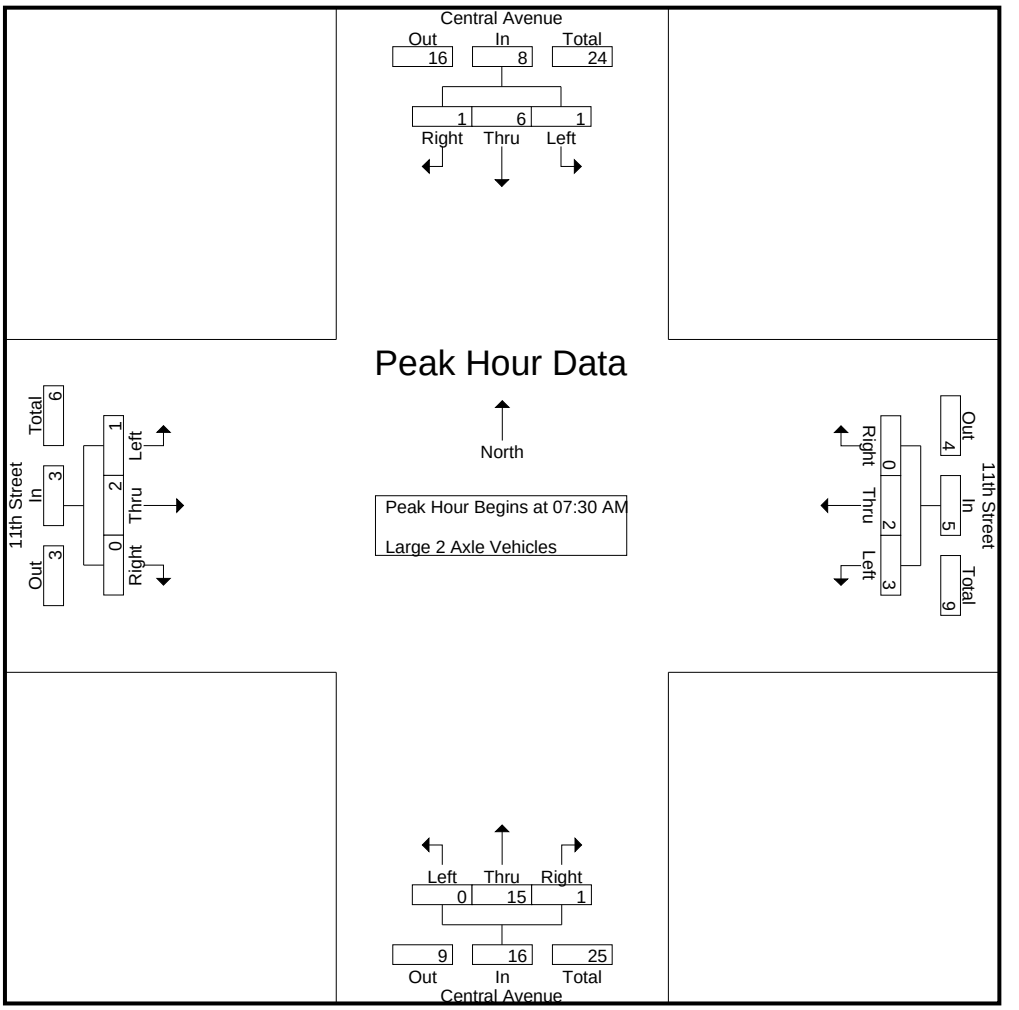

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	**3**	**1**	**4**	**1**	**1**	0	**2**	0	2	0	2	0	0	0	0
+15 mins.	0	2	0	2	0	0	0	0	0	**5**	**1**	**6**	0	0	0	0
+30 mins.	0	0	0	0	1	1	0	2	0	5	0	5	0	**2**	0	**2**
+45 mins.	**1**	1	0	2	1	0	0	1	0	3	0	3	**1**	0	0	1
Total Volume	1	6	1	8	3	2	0	5	0	15	1	16	1	2	0	3
% App. Total	12.5	75	12.5		60	40	0		0	93.8	6.2		33.3	66.7	0	
PHF	.250	.500	.250	.500	.750	.500	.000	.625	.000	.750	.250	.667	.250	.250	.000	.375

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Groups Printed- 3 Axle Vehicles

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
07:15 AM	0	2	0	2	0	0	0	0	1	0	0	1	0	0	0	0	3
07:30 AM	0	2	1	3	1	0	0	1	0	3	0	3	0	1	0	1	8
07:45 AM	0	2	0	2	1	0	0	1	0	0	0	0	0	0	0	0	3
Total	0	7	1	8	2	0	0	2	1	4	0	5	0	1	0	1	16
08:00 AM	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	4
08:15 AM	0	3	0	3	0	0	0	0	0	1	0	1	0	0	0	0	4
08:30 AM	0	3	0	3	0	0	0	0	0	1	0	1	0	0	0	0	4
08:45 AM	0	2	0	2	0	0	0	0	0	4	0	4	0	0	0	0	6
Total	0	10	0	10	0	0	0	0	0	8	0	8	0	0	0	0	18
Grand Total	0	17	1	18	2	0	0	2	1	12	0	13	0	1	0	1	34
Apprch %	0	94.4	5.6		100	0	0		7.7	92.3	0		0	100	0		
Total %	0	50	2.9	52.9	5.9	0	0	5.9	2.9	35.3	0	38.2	0	2.9	0	2.9	

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	2	**1**	**3**	**1**	0	0	**1**	0	**3**	0	**3**	0	**1**	0	**1**	**8**
07:45 AM	0	2	0	2	1	0	0	1	0	0	0	0	0	0	0	0	3
08:00 AM	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0	4
08:15 AM	0	**3**	0	3	0	0	0	0	0	1	0	1	0	0	0	0	4
Total Volume	0	9	1	10	2	0	0	2	0	6	0	6	0	1	0	1	19
% App. Total	0	90	10		100	0	0		0	100	0		0	100	0		
PHF	.000	.750	.250	.833	.500	.000	.000	.500	.000	.500	.000	.500	.000	.250	.000	.250	.594

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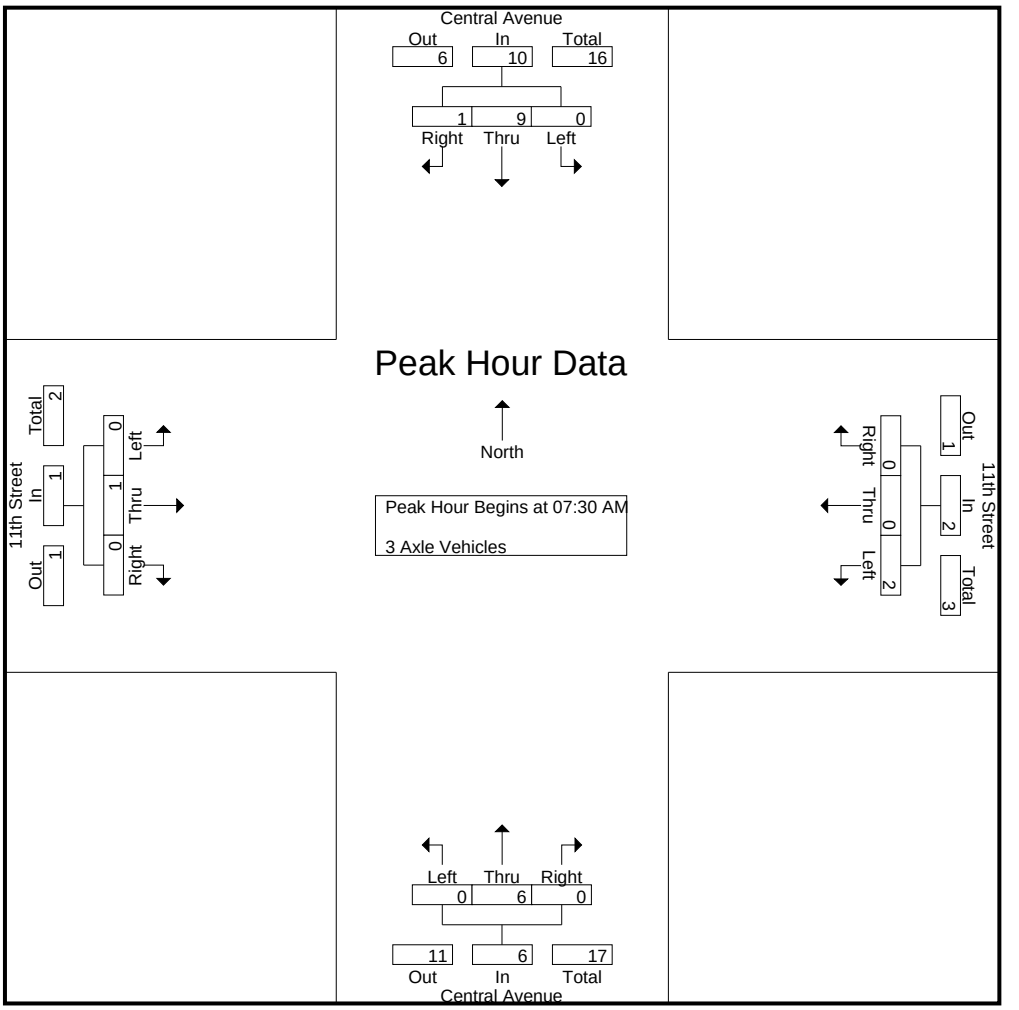

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	2	**1**	**3**	**1**	0	0	**1**	0	**3**	0	**3**	0	**1**	0	**1**
+15 mins.	0	2	0	2	1	0	0	1	0	0	0	0	0	0	0	0
+30 mins.	0	2	0	2	0	0	0	0	0	2	0	2	0	0	0	0
+45 mins.	0	**3**	0	3	0	0	0	0	0	1	0	1	0	0	0	0
Total Volume	0	9	1	10	2	0	0	2	0	6	0	6	0	1	0	1
% App. Total	0	90	10		100	0	0		0	100	0		0	100	0	
PHF	.000	.750	.250	.833	.500	.000	.000	.500	.000	.500	.000	.500	.000	.250	.000	.250

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Groups Printed- 4+ Axle Trucks

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	2	0	2	1	0	0	1	0	0	0	0	0	0	0	0	3
07:15 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1
07:30 AM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	2
Total	0	4	0	4	1	0	0	1	1	1	1	3	0	0	0	0	8
08:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	3
Total	0	2	1	3	0	0	0	0	0	3	0	3	0	0	0	0	6
Grand Total	0	6	1	7	1	0	0	1	1	4	1	6	0	0	0	0	14
Apprch %	0	85.7	14.3		100	0	0		16.7	66.7	16.7		0	0	0		
Total %	0	42.9	7.1	50	7.1	0	0	7.1	7.1	28.6	7.1	42.9	0	0	0	0	

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	**2**	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0	**2**
07:45 AM	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0	2
08:00 AM	0	0	**1**	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	3	1	4	0	0	0	0	1	1	0	2	0	0	0	0	6
% App. Total	0	75	25		0	0	0		50	50	0		0	0	0		
PHF	.000	.375	.250	.500	.000	.000	.000	.000	.250	.250	.000	.250	.000	.000	.000	.000	.750

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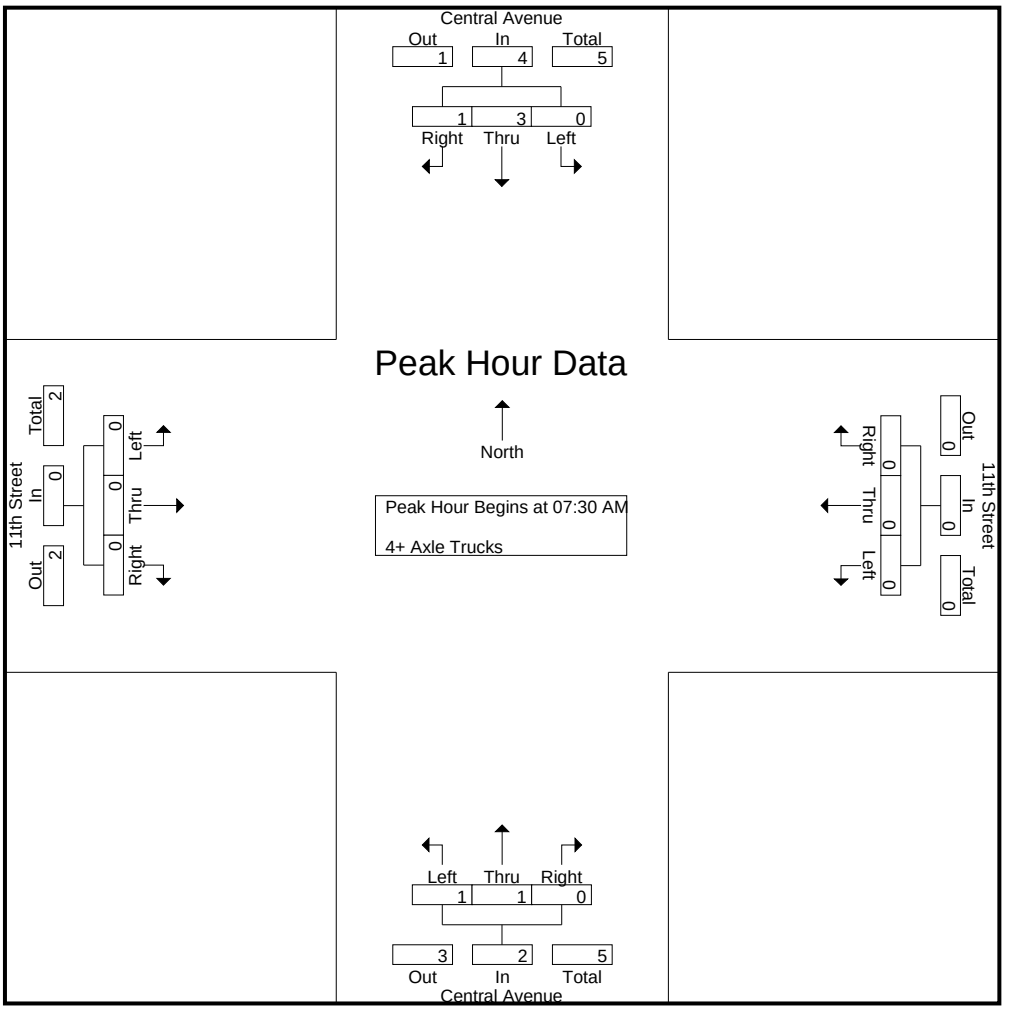

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	**2**	0	**2**	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0
+30 mins.	0	0	**1**	1	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	3	1	4	0	0	0	0	1	1	0	2	0	0	0	0
% App. Total	0	75	25		0	0	0		50	50	0		0	0	0	
PHF	.000	.375	.250	.500	.000	.000	.000	.000	.250	.250	.000	.250	.000	.000	.000	.000

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	7	105	2	114	21	21	6	48	7	109	31	147	6	21	6	33	342
04:15 PM	5	70	7	82	22	14	8	44	4	116	20	140	8	22	14	44	310
04:30 PM	4	82	5	91	20	16	13	49	8	95	19	122	16	15	9	40	302
04:45 PM	6	81	4	91	16	19	10	45	9	102	22	133	12	19	12	43	312
Total	22	338	18	378	79	70	37	186	28	422	92	542	42	77	41	160	1266
05:00 PM	13	92	3	108	29	22	19	70	6	124	23	153	8	20	5	33	364
05:15 PM	7	63	5	75	19	25	7	51	7	109	22	138	7	22	9	38	302
05:30 PM	7	94	12	113	22	14	6	42	6	91	21	118	4	16	8	28	301
05:45 PM	4	73	2	79	14	20	5	39	8	110	14	132	2	13	6	21	271
Total	31	322	22	375	84	81	37	202	27	434	80	541	21	71	28	120	1238
Grand Total	53	660	40	753	163	151	74	388	55	856	172	1083	63	148	69	280	2504
Apprch %	7	87.6	5.3		42	38.9	19.1		5.1	79	15.9		22.5	52.9	24.6		
Total %	2.1	26.4	1.6	30.1	6.5	6	3	15.5	2.2	34.2	6.9	43.3	2.5	5.9	2.8	11.2	
Passenger Vehicles	53	648	40	741	160	151	74	385	54	841	169	1064	63	146	68	277	2467
% Passenger Vehicles	100	98.2	100	98.4	98.2	100	100	99.2	98.2	98.2	98.3	98.2	100	98.6	98.6	98.9	98.5
Large 2 Axle Vehicles	0	12	0	12	3	0	0	3	0	12	3	15	0	1	1	2	32
% Large 2 Axle Vehicles	0	1.8	0	1.6	1.8	0	0	0.8	0	1.4	1.7	1.4	0	0.7	1.4	0.7	1.3
3 Axle Vehicles	0	0	0	0	0	0	0	0	1	1	0	2	0	1	0	1	3
% 3 Axle Vehicles	0	0	0	0	0	0	0	0	1.8	0.1	0	0.2	0	0.7	0	0.4	0.1
4+ Axle Trucks	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
% 4+ Axle Trucks	0	0	0	0	0	0	0	0	0	0.2	0	0.2	0	0	0	0	0.1

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	5	70	**7**	82	22	14	8	44	4	116	20	140	8	**22**	**14**	**44**	310
04:30 PM	4	82	5	91	20	16	13	49	8	95	19	122	**16**	15	9	40	302
04:45 PM	6	81	4	91	16	19	10	45	**9**	102	22	133	12	19	12	43	312
05:00 PM	**13**	**92**	3	**108**	**29**	**22**	**19**	**70**	6	**124**	**23**	**153**	8	20	5	33	**364**
Total Volume	28	325	19	372	87	71	50	208	27	437	84	548	44	76	40	160	1288
% App. Total	7.5	87.4	5.1		41.8	34.1	24		4.9	79.7	15.3		27.5	47.5	25		
PHF	.538	.883	.679	.861	.750	.807	.658	.743	.750	.881	.913	.895	.688	.864	.714	.909	.885

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Weather: Clear

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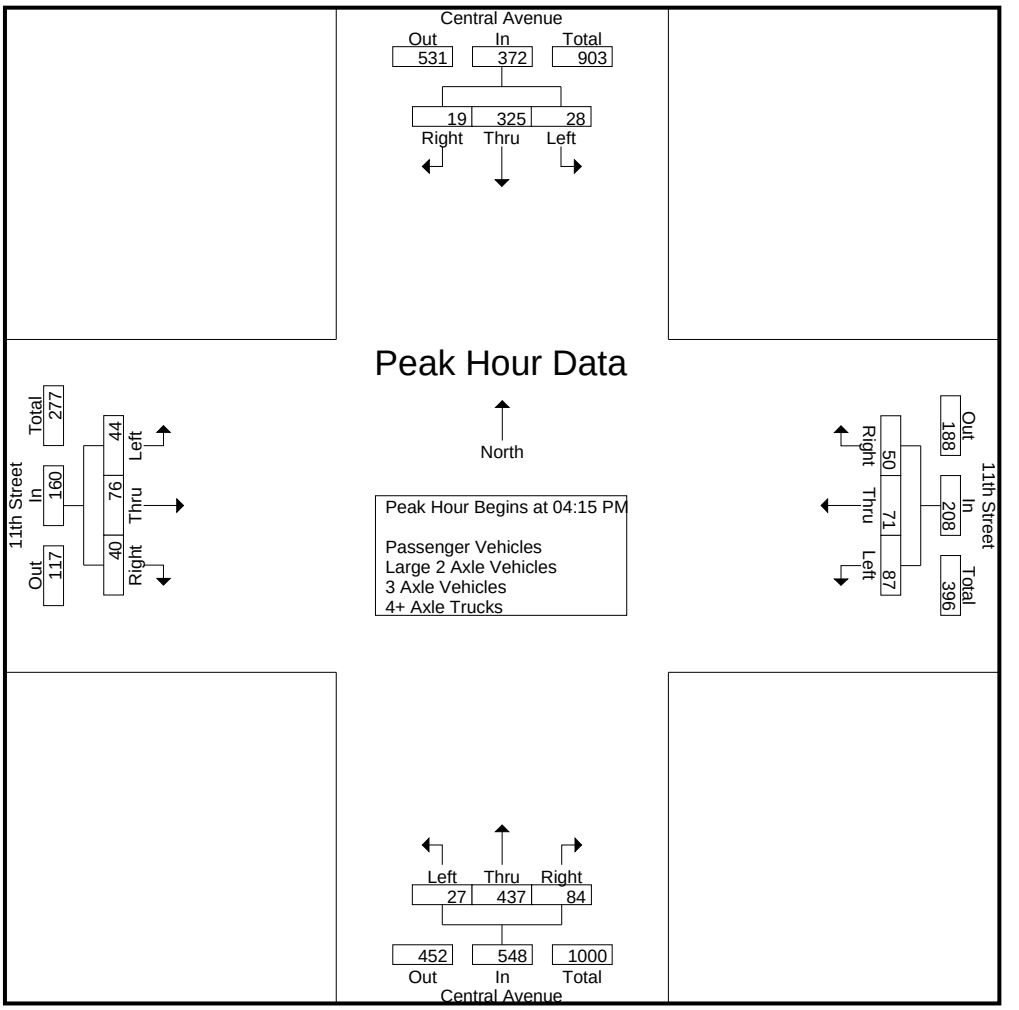

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:45 PM				04:30 PM				04:15 PM				04:00 PM			
+0 mins.	6	81	4	91	20	16	13	49	4	116	20	140	6	21	6	33
+15 mins.	**13**	92	3	108	16	19	10	45	8	95	19	122	8	**22**	**14**	**44**
+30 mins.	7	63	5	75	**29**	22	**19**	**70**	**9**	102	22	133	**16**	15	9	40
+45 mins.	7	**94**	**12**	**113**	19	**25**	7	51	6	**124**	**23**	**153**	12	19	12	43
Total Volume	33	330	24	387	84	82	49	215	27	437	84	548	42	77	41	160
% App. Total	8.5	85.3	6.2		39.1	38.1	22.8		4.9	79.7	15.3		26.2	48.1	25.6	
PHF	.635	.878	.500	.856	.724	.820	.645	.768	.750	.881	.913	.895	.656	.875	.732	.909

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Groups Printed- Passenger Vehicles

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	7	104	2	113	21	21	6	48	7	104	29	140	6	20	6	32	333
04:15 PM	5	67	7	79	22	14	8	44	4	115	19	138	8	22	14	44	305
04:30 PM	4	81	5	90	20	16	13	49	8	94	19	121	16	14	8	38	298
04:45 PM	6	80	4	90	16	19	10	45	8	100	22	130	12	19	12	43	308
Total	22	332	18	372	79	70	37	186	27	413	89	529	42	75	40	157	1244
05:00 PM	13	90	3	106	29	22	19	70	6	121	23	150	8	20	5	33	359
05:15 PM	7	62	5	74	16	25	7	48	7	108	22	137	7	22	9	38	297
05:30 PM	7	93	12	112	22	14	6	42	6	89	21	116	4	16	8	28	298
05:45 PM	4	71	2	77	14	20	5	39	8	110	14	132	2	13	6	21	269
Total	31	316	22	369	81	81	37	199	27	428	80	535	21	71	28	120	1223
Grand Total	53	648	40	741	160	151	74	385	54	841	169	1064	63	146	68	277	2467
Apprch %	7.2	87.4	5.4		41.6	39.2	19.2		5.1	79	15.9		22.7	52.7	24.5		
Total %	2.1	26.3	1.6	30	6.5	6.1	3	15.6	2.2	34.1	6.9	43.1	2.6	5.9	2.8	11.2	

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	5	67	**7**	79	22	14	8	44	4	115	19	138	8	**22**	**14**	**44**	305
04:30 PM	4	81	5	90	20	16	13	49	**8**	94	19	121	**16**	14	8	38	298
04:45 PM	6	80	4	90	16	19	10	45	8	100	22	130	12	19	12	43	308
05:00 PM	**13**	**90**	3	**106**	**29**	**22**	**19**	**70**	6	**121**	**23**	**150**	8	20	5	33	**359**
Total Volume	28	318	19	365	87	71	50	208	26	430	83	539	44	75	39	158	1270
% App. Total	7.7	87.1	5.2		41.8	34.1	24		4.8	79.8	15.4		27.8	47.5	24.7		
PHF	.538	.883	.679	.861	.750	.807	.658	.743	.813	.888	.902	.898	.688	.852	.696	.898	.884

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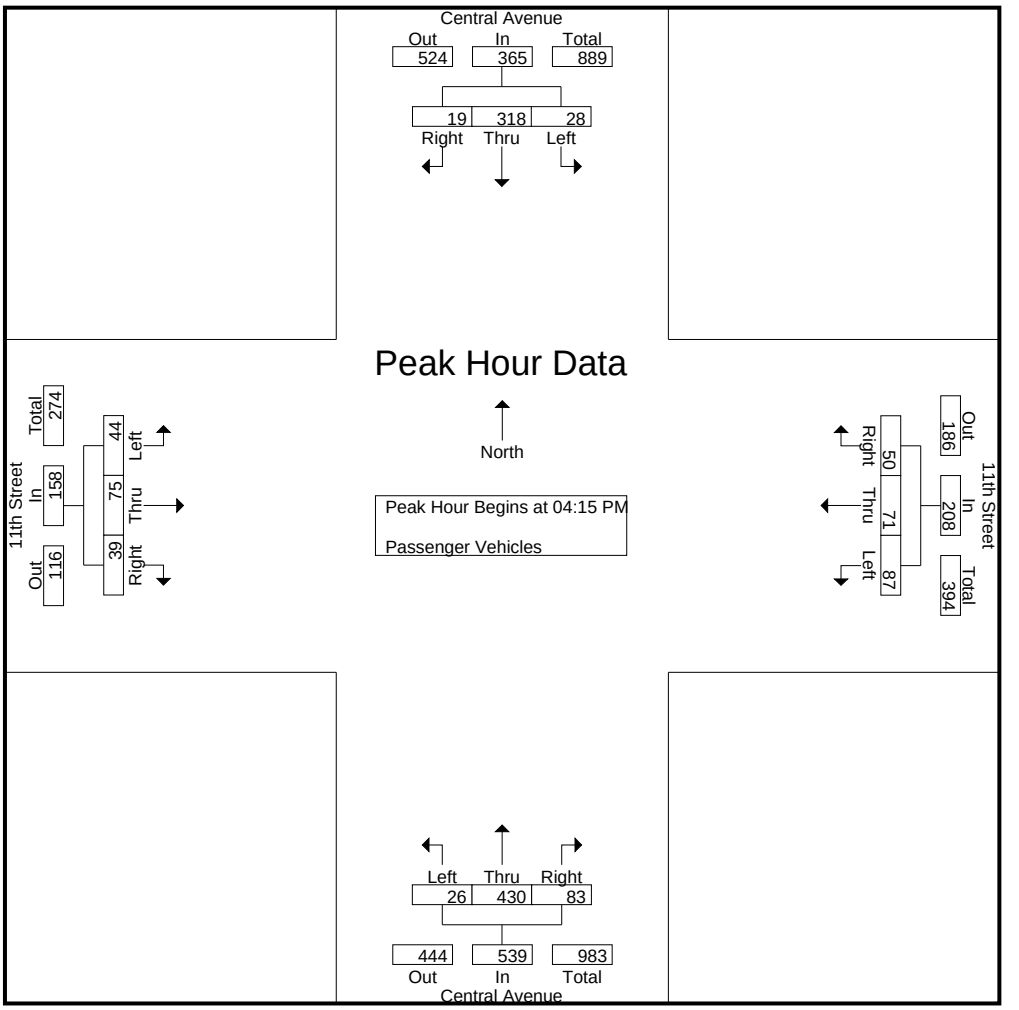

Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:15 PM				04:15 PM				04:15 PM			
+0 mins.	5	67	**7**	79	22	14	8	44	4	115	19	138	8	**22**	**14**	**44**
+15 mins.	4	81	5	90	20	16	13	49	**8**	94	19	121	**16**	14	8	38
+30 mins.	6	80	4	90	16	19	10	45	8	100	22	130	12	19	12	43
+45 mins.	**13**	**90**	3	**106**	**29**	**22**	**19**	**70**	6	**121**	**23**	**150**	8	20	5	33
Total Volume	28	318	19	365	87	71	50	208	26	430	83	539	44	75	39	158
% App. Total	7.7	87.1	5.2		41.8	34.1	24		4.8	79.8	15.4		27.8	47.5	24.7	
PHF	.538	.883	.679	.861	.750	.807	.658	.743	.813	.888	.902	.898	.688	.852	.696	.898

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Groups Printed- Large 2 Axle Vehicles

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	1	0	1	0	0	0	0	0	3	2	5	0	0	0	0	6
04:15 PM	0	3	0	3	0	0	0	0	0	1	1	2	0	0	0	0	5
04:30 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	1	1	2	4
04:45 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
Total	0	6	0	6	0	0	0	0	0	6	3	9	0	1	1	2	17
05:00 PM	0	2	0	2	0	0	0	0	0	3	0	3	0	0	0	0	5
05:15 PM	0	1	0	1	3	0	0	3	0	1	0	1	0	0	0	0	5
05:30 PM	0	1	0	1	0	0	0	0	0	2	0	2	0	0	0	0	3
05:45 PM	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	6	0	6	3	0	0	3	0	6	0	6	0	0	0	0	15
Grand Total	0	12	0	12	3	0	0	3	0	12	3	15	0	1	1	2	32
Apprch %	0	100	0		100	0	0		0	80	20		0	50	50		
Total %	0	37.5	0	37.5	9.4	0	0	9.4	0	37.5	9.4	46.9	0	3.1	3.1	6.2	

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	0	**3**	0	**3**	0	0	0	0	0	1	**1**	2	0	0	0	0	**5**
04:30 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	**1**	**1**	**2**	4
04:45 PM	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0	2
05:00 PM	0	2	0	2	0	0	0	0	0	**3**	0	**3**	0	0	0	0	5
Total Volume	0	7	0	7	0	0	0	0	0	6	1	7	0	1	1	2	16
% App. Total	0	100	0		0	0	0		0	85.7	14.3		0	50	50		
PHF	.000	.583	.000	.583	.000	.000	.000	.000	.000	.500	.250	.583	.000	.250	.250	.250	.800

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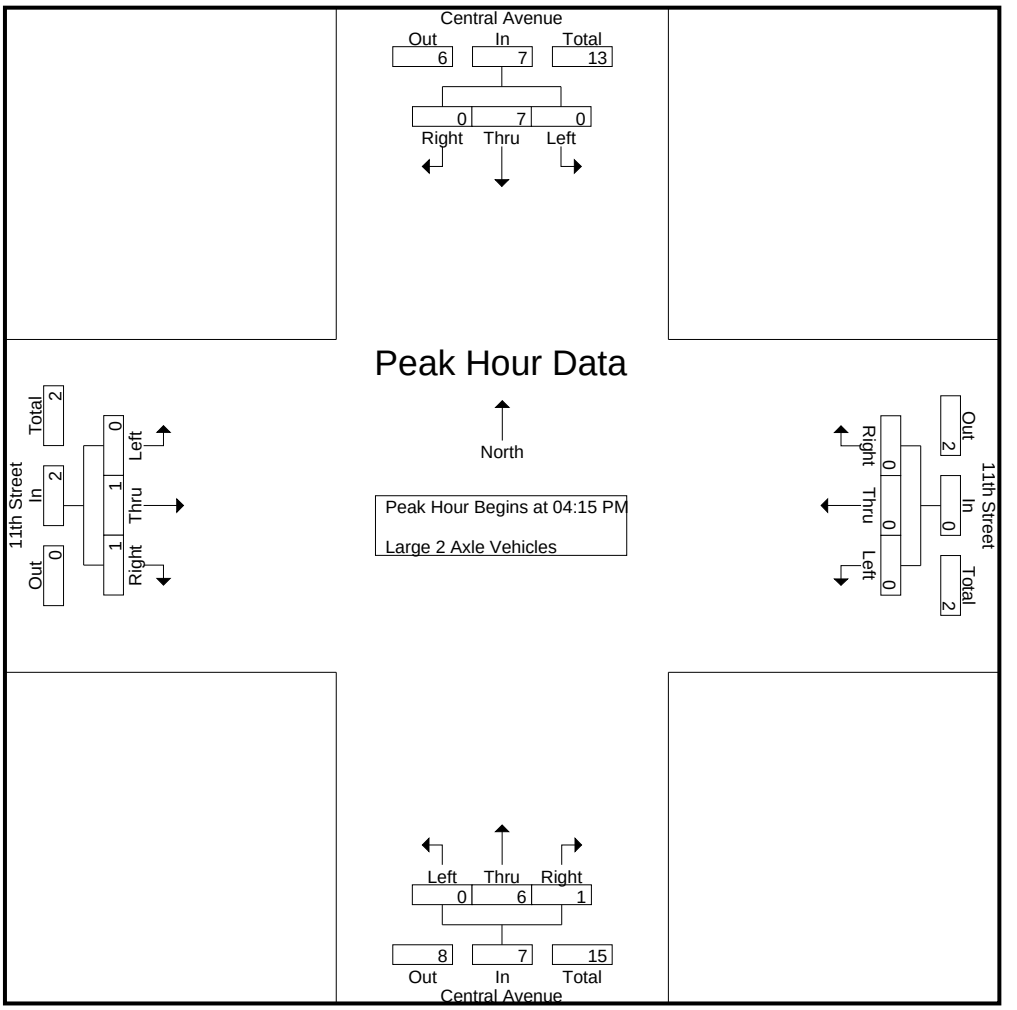

Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:15 PM				04:15 PM				04:15 PM			
+0 mins.	0	**3**	0	**3**	0	0	0	0	0	1	**1**	2	0	0	0	0
+15 mins.	0	1	0	1	0	0	0	0	0	1	0	1	0	**1**	**1**	**2**
+30 mins.	0	1	0	1	0	0	0	0	0	1	0	1	0	0	0	0
+45 mins.	0	2	0	2	0	0	0	0	0	**3**	0	**3**	0	0	0	0
Total Volume	0	7	0	7	0	0	0	0	0	6	1	7	0	1	1	2
% App. Total	0	100	0		0	0	0		0	85.7	14.3		0	50	50	
PHF	.000	.583	.000	.583	.000	.000	.000	.000	.000	.500	.250	.583	.000	.250	.250	.250

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Groups Printed- 3 Axle Vehicles

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	2
Total	0	0	0	0	0	0	0	0	1	1	0	2	0	1	0	1	3
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	1	1	0	2	0	1	0	1	3
Apprch %	0	0	0		0	0	0		50	50	0		0	100	0		
Total %	0	0	0	0	0	0	0	0	33.3	33.3	0	66.7	0	33.3	0	33.3	

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0	**2**
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	2
% App. Total	0	0	0		0	0	0		50	50	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.250	.000	.000	.000	.000	.250

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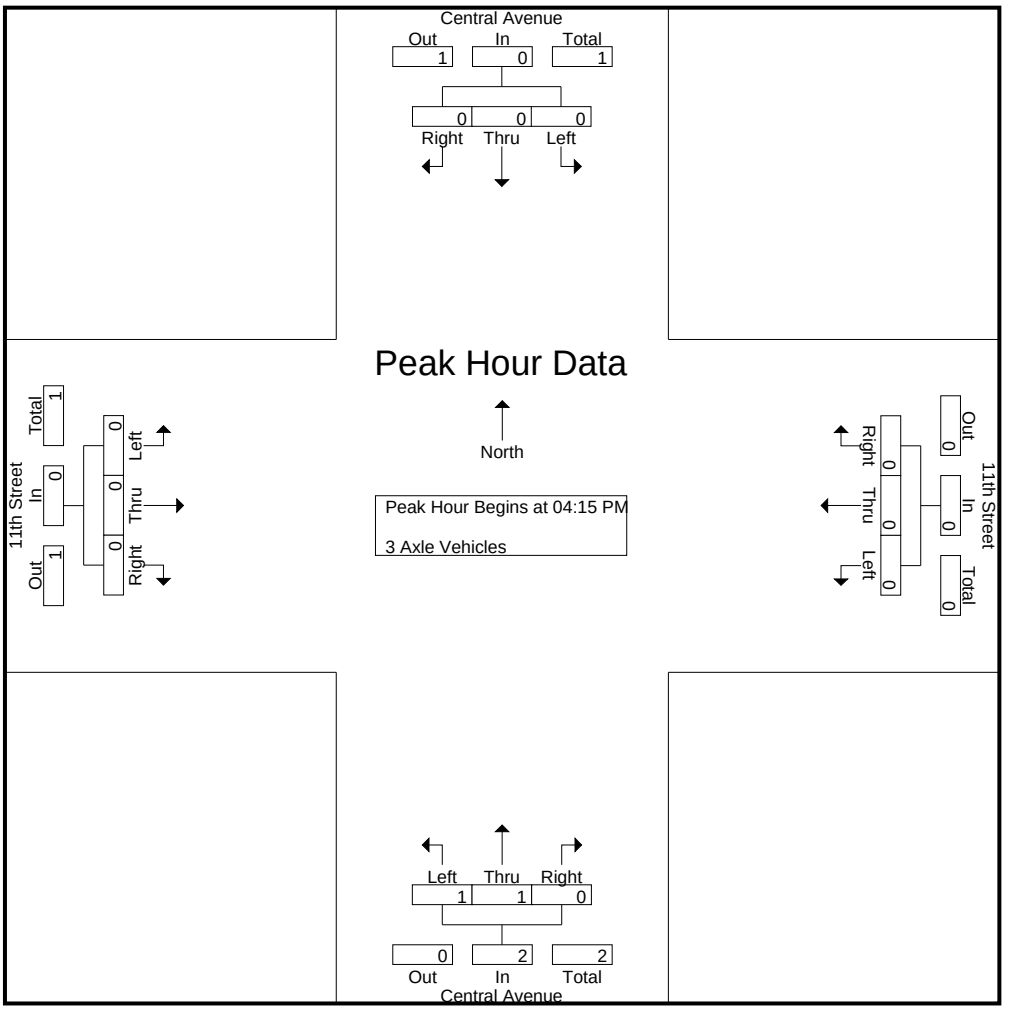

Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:15 PM				04:15 PM				04:15 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	**1**	**1**	0	**2**	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0
% App. Total	0	0	0		0	0	0		50	50	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.250	.250	.000	.250	.000	.000	.000	.000

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Groups Printed- 4+ Axle Trucks

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
Apprch %	0	0	0		0	0	0		0	100	0		0	0	0		
Total %	0	0	0	0	0	0	0	0	0	100	0	100	0	0	0	0	

	Central Avenue Southbound				11th Street Westbound				Central Avenue Northbound				11th Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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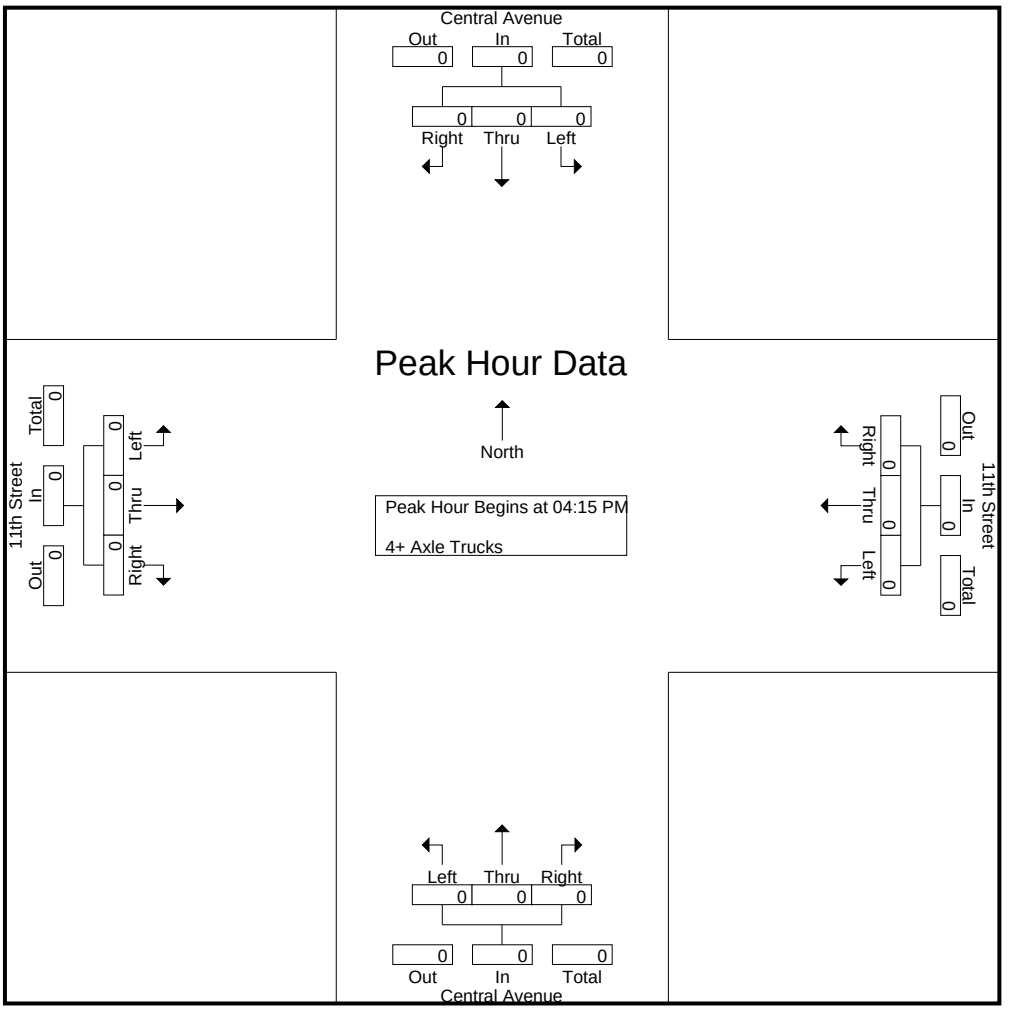

Peak Hour Analysis From 04:15 PM to 05:00 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:15 PM				04:15 PM				04:15 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

Location: Upland
N/S: Central Avenue
E/W: 11th Street

Date: 10/26/2022
Day: Wednesday

PEDESTRIANS

	North Leg Central Avenue	East Leg 11th Street	South Leg Central Avenue	West Leg 11th Street	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	1	0	1	1	3
7:15 AM	0	0	2	0	2
7:30 AM	0	1	0	0	1
7:45 AM	0	0	0	1	1
8:00 AM	0	1	0	0	1
8:15 AM	1	2	1	0	4
8:30 AM	1	1	2	1	5
8:45 AM	1	0	0	0	1
TOTAL VOLUMES:	4	5	6	3	18

	North Leg Central Avenue	East Leg 11th Street	South Leg Central Avenue	West Leg 11th Street	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	1	1	0	1	3
4:15 PM	1	0	1	2	4
4:30 PM	0	0	1	0	1
4:45 PM	0	0	0	0	0
5:00 PM	2	1	2	0	5
5:15 PM	0	0	2	0	2
5:30 PM	0	0	2	0	2
5:45 PM	0	0	2	0	2
TOTAL VOLUMES:	4	2	10	3	19

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Location: Upland
N/S: Central Avenue
E/W: 11th Street

Date: 10/26/2022
Day: Wednesday

BICYCLES

	Southbound Central Avenue			Westbound 11th Street			Northbound Central Avenue			Eastbound 11th Street			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
7:15 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
8:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	1	0	1	0	0	0	0	0	0	0	2
TOTAL VOLUMES:	1	0	1	1	4	0	0	0	0	0	3	0	10

	Southbound Central Avenue			Westbound 11th Street			Northbound Central Avenue			Eastbound 11th Street			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
TOTAL VOLUMES:	0	0	0	0	1	0	0	2	0	0	0	0	3

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	176	4	180	0	63	63	243
07:15 AM	1	0	1	169	0	169	1	86	87	257
07:30 AM	0	1	1	222	3	225	0	144	144	370
07:45 AM	0	0	0	261	1	262	0	138	138	400
Total	1	1	2	828	8	836	1	431	432	1270
08:00 AM	2	1	3	212	3	215	0	169	169	387
08:15 AM	2	0	2	205	3	208	3	162	165	375
08:30 AM	0	0	0	194	3	197	0	141	141	338
08:45 AM	0	0	0	180	2	182	0	146	146	328
Total	4	1	5	791	11	802	3	618	621	1428
Grand Total	5	2	7	1619	19	1638	4	1049	1053	2698
Apprch %	71.4	28.6		98.8	1.2		0.4	99.6		
Total %	0.2	0.1	0.3	60	0.7	60.7	0.1	38.9	39	
Passenger Vehicles	5	2	7	1570	18	1588	3	1002	1005	2600
% Passenger Vehicles	100	100	100	97	94.7	96.9	75	95.5	95.4	96.4
Large 2 Axle Vehicles	0	0	0	29	1	30	1	27	28	58
% Large 2 Axle Vehicles	0	0	0	1.8	5.3	1.8	25	2.6	2.7	2.1
3 Axle Vehicles	0	0	0	13	0	13	0	14	14	27
% 3 Axle Vehicles	0	0	0	0.8	0	0.8	0	1.3	1.3	1
4+ Axle Trucks	0	0	0	7	0	7	0	6	6	13
% 4+ Axle Trucks	0	0	0	0.4	0	0.4	0	0.6	0.6	0.5

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	**1**	1	222	**3**	225	0	144	144	370
07:45 AM	0	0	0	**261**	1	**262**	0	138	138	**400**
08:00 AM	**2**	1	**3**	212	3	215	0	**169**	**169**	387
08:15 AM	2	0	2	205	3	208	**3**	162	165	375
Total Volume	4	2	6	900	10	910	3	613	616	1532
% App. Total	66.7	33.3		98.9	1.1		0.5	99.5		
PHF	.500	.500	.500	.862	.833	.868	.250	.907	.911	.958

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
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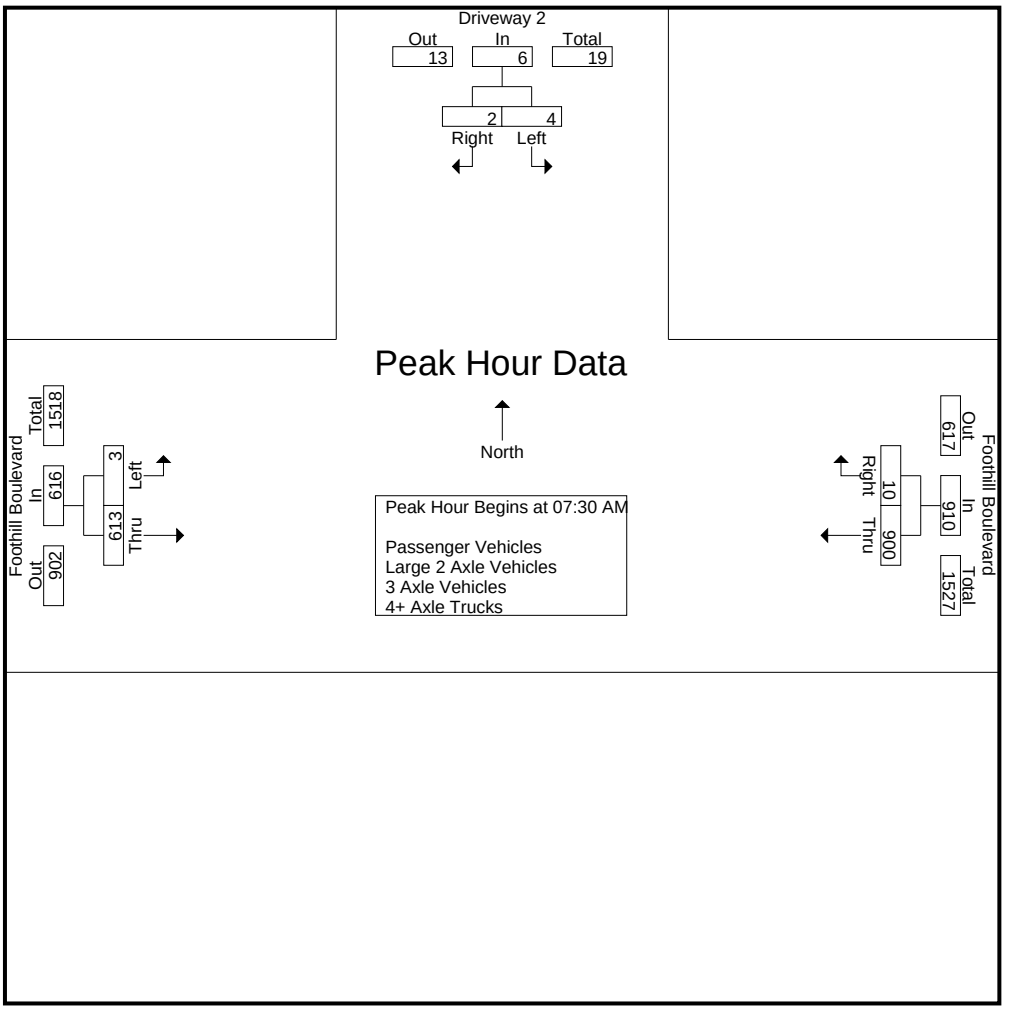

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			08:00 AM		
+0 mins.	0	**1**	1	222	**3**	225	0	**169**	**169**
+15 mins.	0	0	0	**261**	1	**262**	**3**	162	165
+30 mins.	**2**	1	**3**	212	3	215	0	141	141
+45 mins.	2	0	2	205	3	208	0	146	146
Total Volume	4	2	6	900	10	910	3	618	621
% App. Total	66.7	33.3		98.9	1.1		0.5	99.5	
PHF	.500	.500	.500	.862	.833	.868	.250	.914	.919

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot AM
Site Code : 00322974
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Groups Printed- Passenger Vehicles

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	169	4	173	0	62	62	235
07:15 AM	1	0	1	165	0	165	1	80	81	247
07:30 AM	0	1	1	210	2	212	0	140	140	353
07:45 AM	0	0	0	255	1	256	0	133	133	389
Total	1	1	2	799	7	806	1	415	416	1224
08:00 AM	2	1	3	212	3	215	0	157	157	375
08:15 AM	2	0	2	199	3	202	2	151	153	357
08:30 AM	0	0	0	188	3	191	0	138	138	329
08:45 AM	0	0	0	172	2	174	0	141	141	315
Total	4	1	5	771	11	782	2	587	589	1376
Grand Total	5	2	7	1570	18	1588	3	1002	1005	2600
Apprch %	71.4	28.6		98.9	1.1		0.3	99.7		
Total %	0.2	0.1	0.3	60.4	0.7	61.1	0.1	38.5	38.7	

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	**1**	1	210	2	212	0	140	140	353
07:45 AM	0	0	0	**255**	1	**256**	0	133	133	**389**
08:00 AM	**2**	1	**3**	212	**3**	215	0	**157**	**157**	375
08:15 AM	2	0	2	199	3	202	**2**	151	153	357
Total Volume	4	2	6	876	9	885	2	581	583	1474
% App. Total	66.7	33.3		99	1		0.3	99.7		
PHF	.500	.500	.500	.859	.750	.864	.250	.925	.928	.947

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot AM
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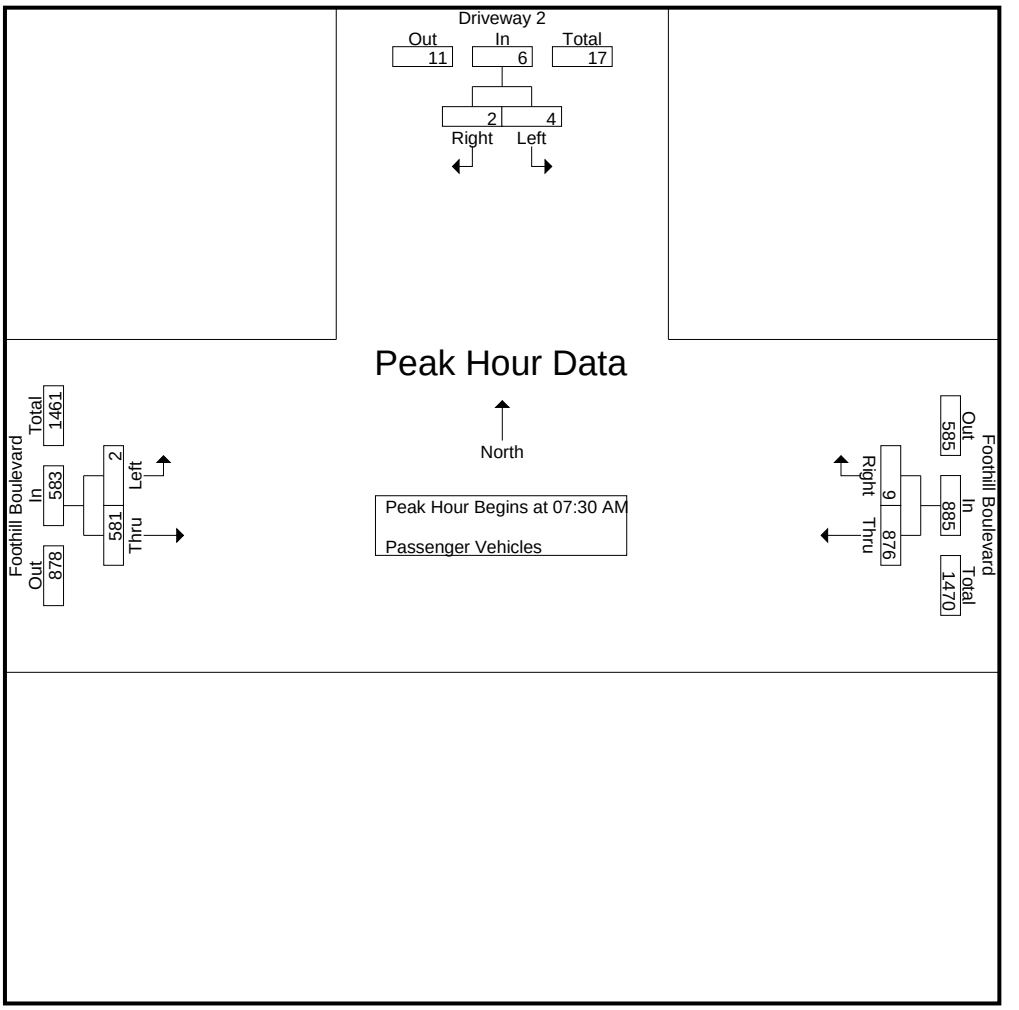

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	**1**	1	210	2	212	0	140	140
+15 mins.	0	0	0	**255**	1	**256**	0	133	133
+30 mins.	**2**	1	**3**	212	**3**	215	0	**157**	**157**
+45 mins.	2	0	2	199	3	202	**2**	151	153
Total Volume	4	2	6	876	9	885	2	581	583
% App. Total	66.7	33.3		99	1		0.3	99.7	
PHF	.500	.500	.500	.859	.750	.864	.250	.925	.928

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	3	0	3	0	1	1	4
07:15 AM	0	0	0	1	0	1	0	3	3	4
07:30 AM	0	0	0	8	1	9	0	2	2	11
07:45 AM	0	0	0	5	0	5	0	3	3	8
Total	0	0	0	17	1	18	0	9	9	27
08:00 AM	0	0	0	0	0	0	0	8	8	8
08:15 AM	0	0	0	3	0	3	1	6	7	10
08:30 AM	0	0	0	4	0	4	0	3	3	7
08:45 AM	0	0	0	5	0	5	0	1	1	6
Total	0	0	0	12	0	12	1	18	19	31
Grand Total	0	0	0	29	1	30	1	27	28	58
Apprch %	0	0		96.7	3.3		3.6	96.4		
Total %	0	0	0	50	1.7	51.7	1.7	46.6	48.3	

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**8**	**1**	**9**	0	2	2	**11**
07:45 AM	0	0	0	5	0	5	0	3	3	8
08:00 AM	0	0	0	0	0	0	0	**8**	**8**	8
08:15 AM	0	0	0	3	0	3	**1**	6	7	10
Total Volume	0	0	0	16	1	17	1	19	20	37
% App. Total	0	0		94.1	5.9		5	95		
PHF	.000	.000	.000	.500	.250	.472	.250	.594	.625	.841

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot AM
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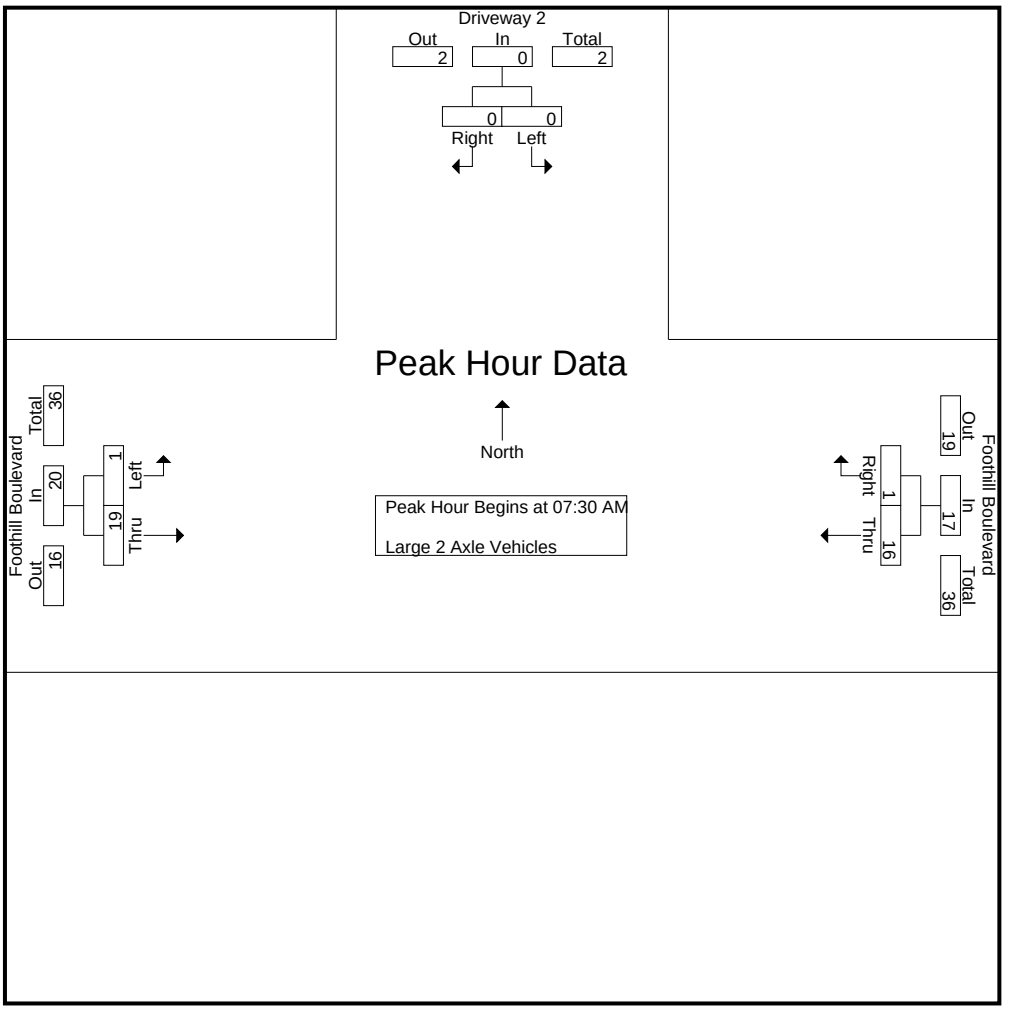

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**8**	**1**	**9**	0	2	2
+15 mins.	0	0	0	5	0	5	0	3	3
+30 mins.	0	0	0	0	0	0	0	**8**	**8**
+45 mins.	0	0	0	3	0	3	**1**	6	7
Total Volume	0	0	0	16	1	17	1	19	20
% App. Total	0	0		94.1	5.9		5	95	
PHF	.000	.000	.000	.500	.250	.472	.250	.594	.625

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot AM
Site Code : 00322974
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Groups Printed- 3 Axle Vehicles

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	2	0	2	0	0	0	2
07:15 AM	0	0	0	1	0	1	0	3	3	4
07:30 AM	0	0	0	3	0	3	0	2	2	5
07:45 AM	0	0	0	1	0	1	0	0	0	1
Total	0	0	0	7	0	7	0	5	5	12
08:00 AM	0	0	0	0	0	0	0	3	3	3
08:15 AM	0	0	0	2	0	2	0	4	4	6
08:30 AM	0	0	0	1	0	1	0	0	0	1
08:45 AM	0	0	0	3	0	3	0	2	2	5
Total	0	0	0	6	0	6	0	9	9	15
Grand Total	0	0	0	13	0	13	0	14	14	27
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	48.1	0	48.1	0	51.9	51.9	

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**3**	0	**3**	0	2	2	5
07:45 AM	0	0	0	1	0	1	0	0	0	1
08:00 AM	0	0	0	0	0	0	0	3	3	3
08:15 AM	0	0	0	2	0	2	0	**4**	**4**	**6**
Total Volume	0	0	0	6	0	6	0	9	9	15
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.500	.000	.500	.000	.563	.563	.625

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot AM
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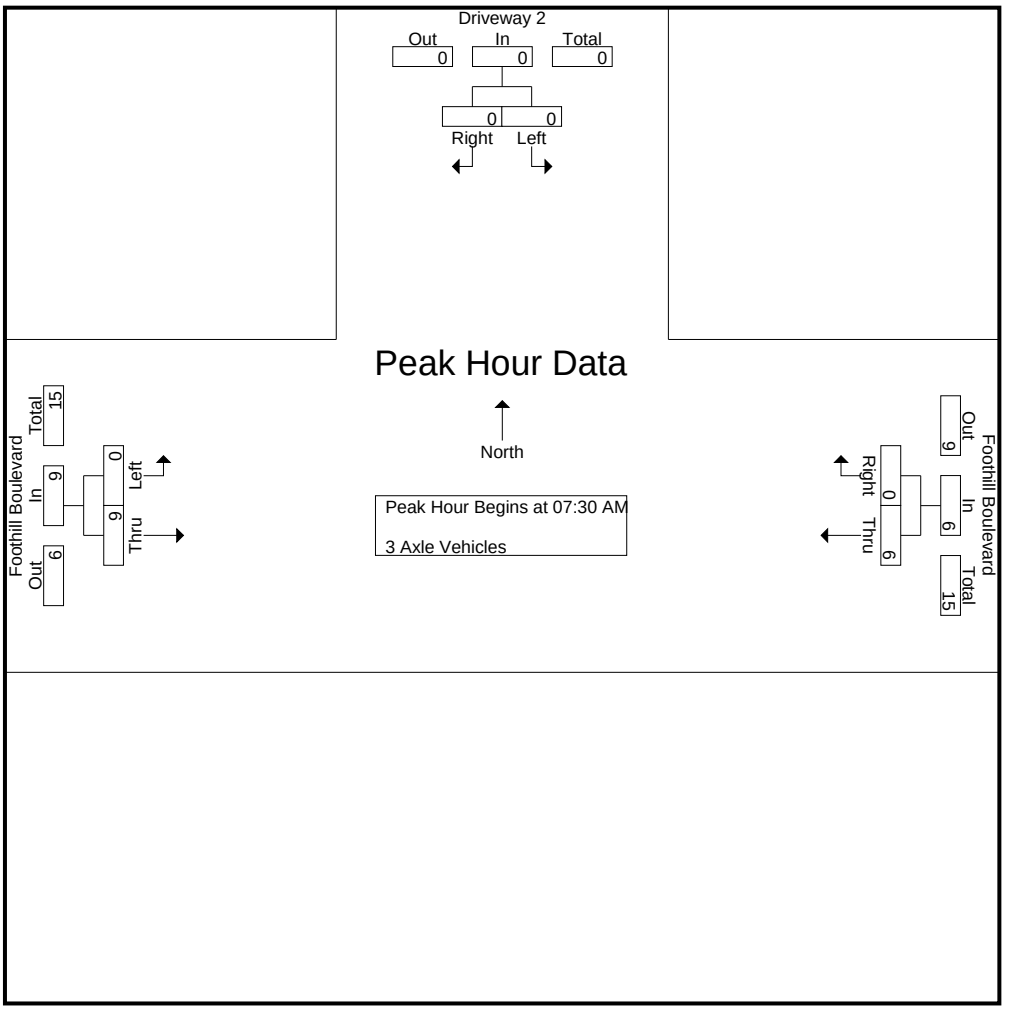

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**3**	0	**3**	0	2	2
+15 mins.	0	0	0	1	0	1	0	0	0
+30 mins.	0	0	0	0	0	0	0	3	3
+45 mins.	0	0	0	2	0	2	0	**4**	**4**
Total Volume	0	0	0	6	0	6	0	9	9
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.500	.000	.500	.000	.563	.563

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City of Upland
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E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot AM
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Groups Printed- 4+ Axle Trucks

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	2	0	2	0	0	0	2
07:15 AM	0	0	0	2	0	2	0	0	0	2
07:30 AM	0	0	0	1	0	1	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	2	2	2
Total	0	0	0	5	0	5	0	2	2	7
08:00 AM	0	0	0	0	0	0	0	1	1	1
08:15 AM	0	0	0	1	0	1	0	1	1	2
08:30 AM	0	0	0	1	0	1	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	2	2	2
Total	0	0	0	2	0	2	0	4	4	6
Grand Total	0	0	0	7	0	7	0	6	6	13
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	53.8	0	53.8	0	46.2	46.2	

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**1**	0	**1**	0	0	0	1
07:45 AM	0	0	0	0	0	0	0	**2**	**2**	**2**
08:00 AM	0	0	0	0	0	0	0	1	1	1
08:15 AM	0	0	0	1	0	1	0	1	1	2
Total Volume	0	0	0	2	0	2	0	4	4	6
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.500	.000	.500	.000	.500	.500	.750

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City of Upland
N/S: Driveway 2
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File Name : 04_UPL_DW 2_Foot AM
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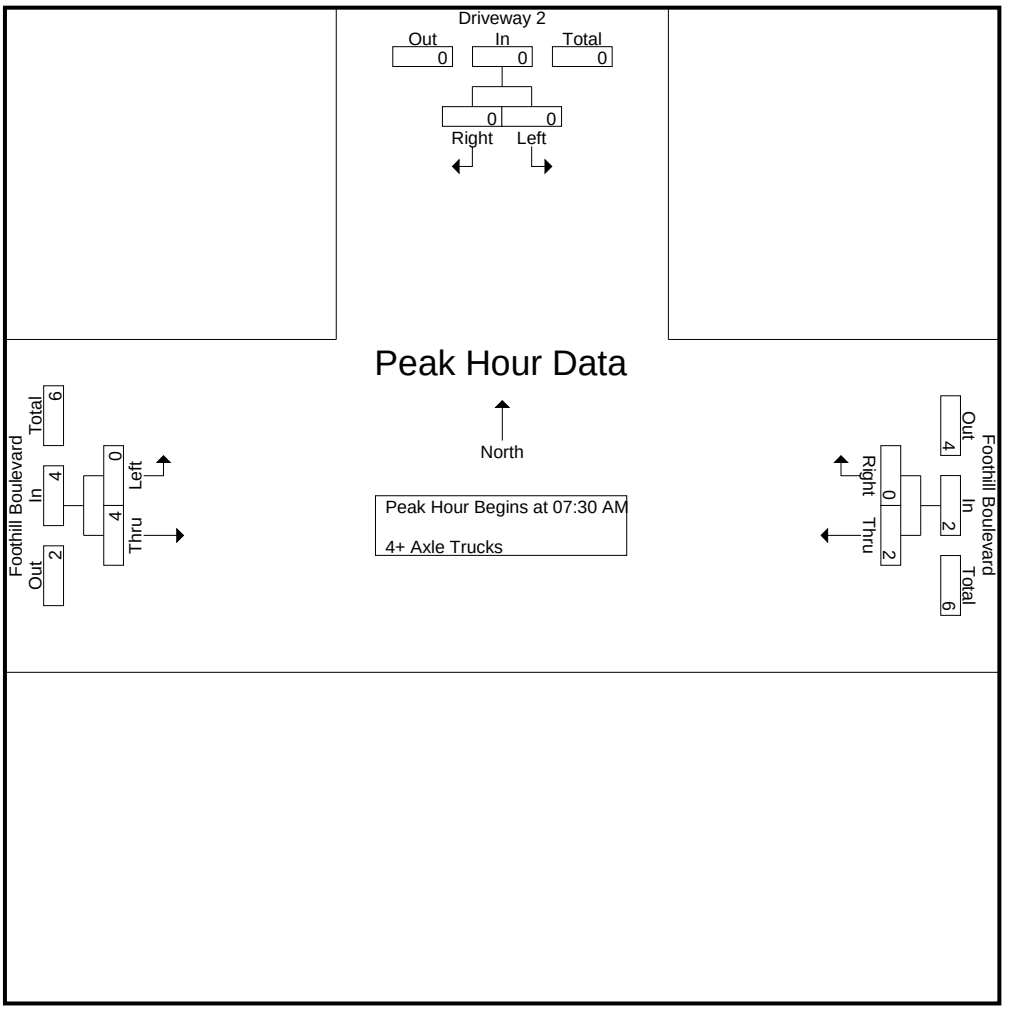

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**1**	0	**1**	0	0	0
+15 mins.	0	0	0	0	0	0	0	**2**	**2**
+30 mins.	0	0	0	0	0	0	0	1	1
+45 mins.	0	0	0	1	0	1	0	1	1
Total Volume	0	0	0	2	0	2	0	4	4
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.500	.000	.500	.000	.500	.500

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	197	0	197	0	343	343	540
04:15 PM	0	0	0	194	0	194	0	351	351	545
04:30 PM	0	0	0	219	0	219	0	319	319	538
04:45 PM	0	0	0	186	0	186	0	336	336	522
Total	0	0	0	796	0	796	0	1349	1349	2145
05:00 PM	0	0	0	215	0	215	0	361	361	576
05:15 PM	0	0	0	195	0	195	0	398	398	593
05:30 PM	0	0	0	184	0	184	0	320	320	504
05:45 PM	0	0	0	211	1	212	1	311	312	524
Total	0	0	0	805	1	806	1	1390	1391	2197
Grand Total	0	0	0	1601	1	1602	1	2739	2740	4342
Apprch %	0	0		99.9	0.1		0	100		
Total %	0	0	0	36.9	0	36.9	0	63.1	63.1	
Passenger Vehicles	0	0	0	1585	1	1586	1	2711	2712	4298
% Passenger Vehicles	0	0	0	99	100	99	100	99	99	99
Large 2 Axle Vehicles	0	0	0	14	0	14	0	24	24	38
% Large 2 Axle Vehicles	0	0	0	0.9	0	0.9	0	0.9	0.9	0.9
3 Axle Vehicles	0	0	0	1	0	1	0	3	3	4
% 3 Axle Vehicles	0	0	0	0.1	0	0.1	0	0.1	0.1	0.1
4+ Axle Trucks	0	0	0	1	0	1	0	1	1	2
% 4+ Axle Trucks	0	0	0	0.1	0	0.1	0	0	0	0

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	**219**	0	**219**	0	319	319	538
04:45 PM	0	0	0	186	0	186	0	336	336	522
05:00 PM	0	0	0	215	0	215	0	361	361	576
05:15 PM	0	0	0	195	0	195	0	**398**	**398**	**593**
Total Volume	0	0	0	815	0	815	0	1414	1414	2229
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.930	.000	.930	.000	.888	.888	.940

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
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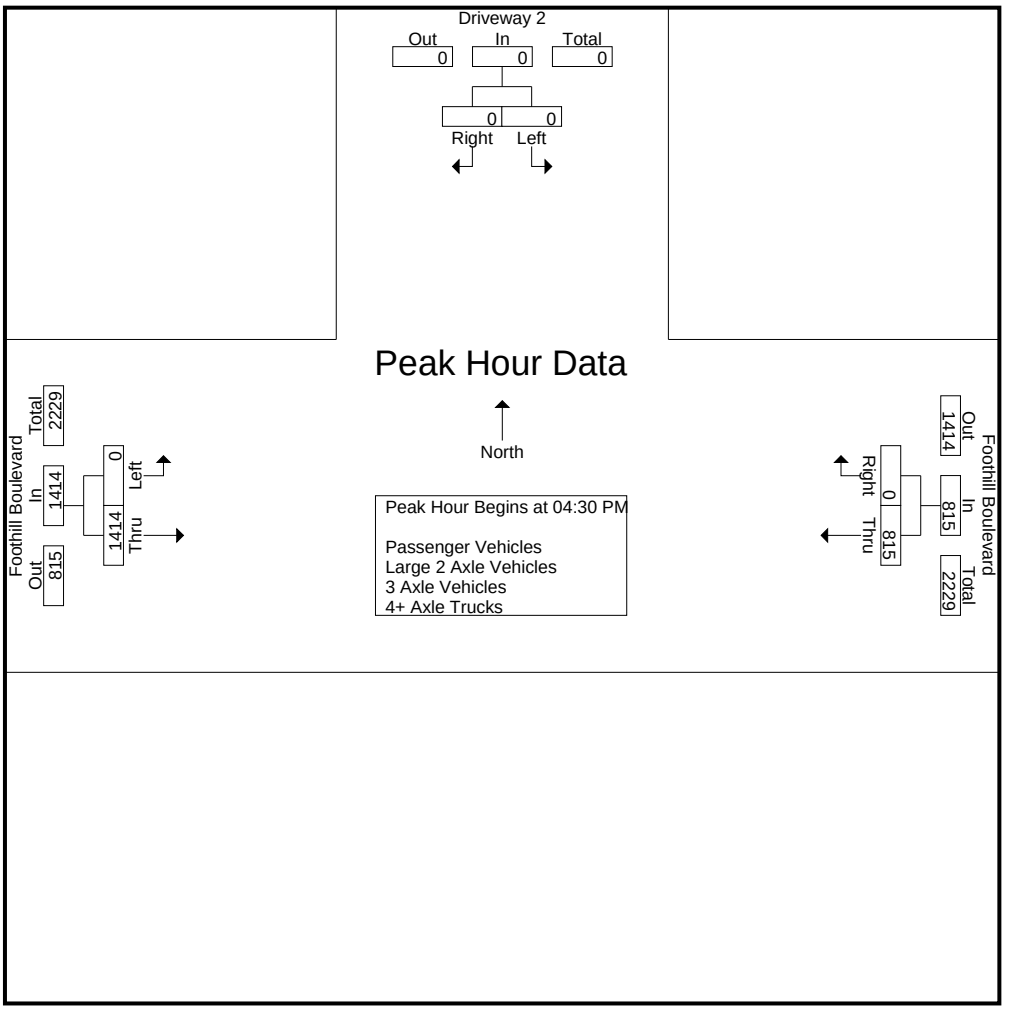

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM			04:30 PM			04:45 PM		
+0 mins.	0	0	0	**219**	0	**219**	0	336	336
+15 mins.	0	0	0	186	0	186	0	361	361
+30 mins.	0	0	0	215	0	215	0	**398**	**398**
+45 mins.	0	0	0	195	0	195	0	320	320
Total Volume	0	0	0	815	0	815	0	1415	1415
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.930	.000	.930	.000	.889	.889

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Passenger Vehicles

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	194	0	194	0	336	336	530
04:15 PM	0	0	0	190	0	190	0	347	347	537
04:30 PM	0	0	0	217	0	217	0	315	315	532
04:45 PM	0	0	0	185	0	185	0	334	334	519
Total	0	0	0	786	0	786	0	1332	1332	2118
05:00 PM	0	0	0	214	0	214	0	358	358	572
05:15 PM	0	0	0	195	0	195	0	395	395	590
05:30 PM	0	0	0	179	0	179	0	317	317	496
05:45 PM	0	0	0	211	1	212	1	309	310	522
Total	0	0	0	799	1	800	1	1379	1380	2180
Grand Total	0	0	0	1585	1	1586	1	2711	2712	4298
Apprch %	0	0		99.9	0.1		0	100		
Total %	0	0	0	36.9	0	36.9	0	63.1	63.1	

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	**217**	0	**217**	0	315	315	532
04:45 PM	0	0	0	185	0	185	0	334	334	519
05:00 PM	0	0	0	214	0	214	0	358	358	572
05:15 PM	0	0	0	195	0	195	0	**395**	**395**	**590**
Total Volume	0	0	0	811	0	811	0	1402	1402	2213
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.934	.000	.934	.000	.887	.887	.938

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
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File Name : 04_UPL_DW 2_Foot PM
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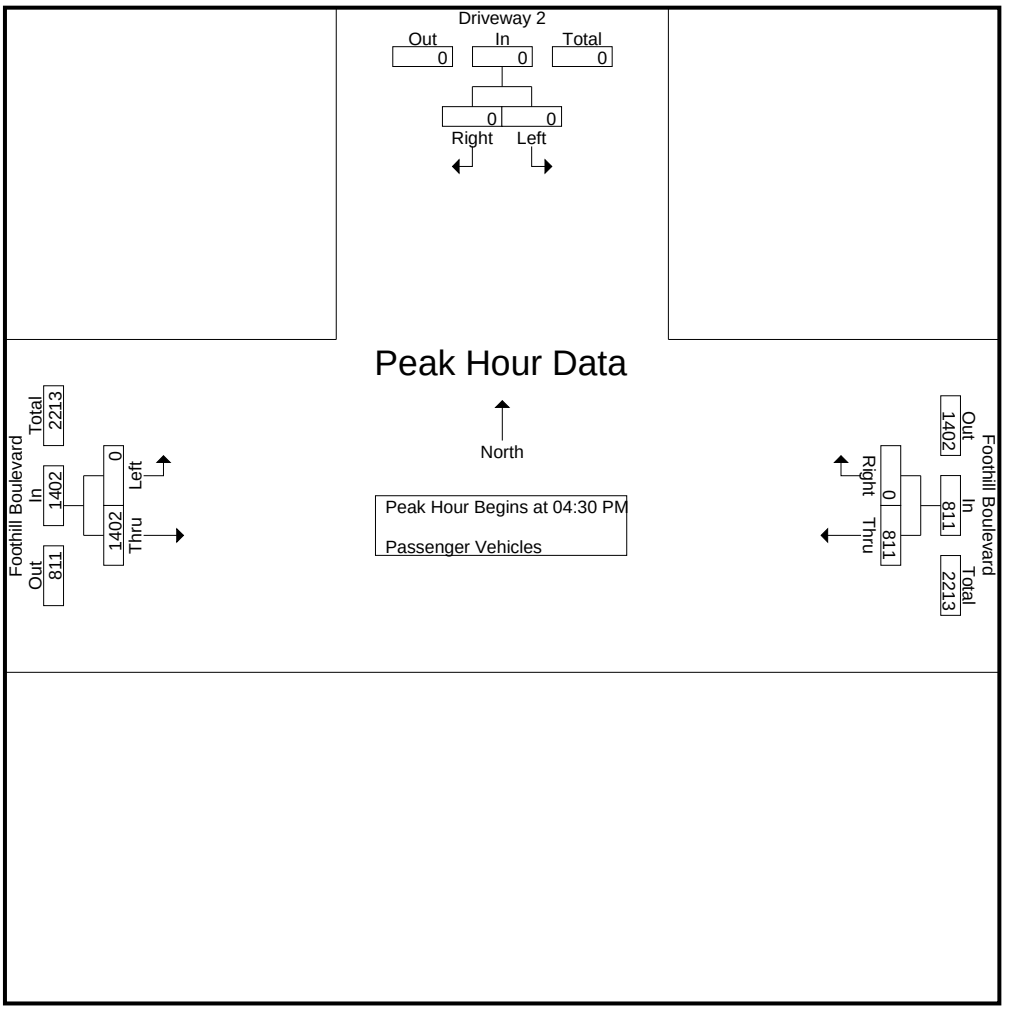

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	0	0	**217**	0	**217**	0	315	315
+15 mins.	0	0	0	185	0	185	0	334	334
+30 mins.	0	0	0	214	0	214	0	358	358
+45 mins.	0	0	0	195	0	195	0	**395**	**395**
Total Volume	0	0	0	811	0	811	0	1402	1402
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.934	.000	.934	.000	.887	.887

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot PM
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Groups Printed- Large 2 Axle Vehicles

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	2	0	2	0	4	4	6
04:15 PM	0	0	0	3	0	3	0	4	4	7
04:30 PM	0	0	0	2	0	2	0	4	4	6
04:45 PM	0	0	0	1	0	1	0	2	2	3
Total	0	0	0	8	0	8	0	14	14	22
05:00 PM	0	0	0	1	0	1	0	3	3	4
05:15 PM	0	0	0	0	0	0	0	3	3	3
05:30 PM	0	0	0	5	0	5	0	2	2	7
05:45 PM	0	0	0	0	0	0	0	2	2	2
Total	0	0	0	6	0	6	0	10	10	16
Grand Total	0	0	0	14	0	14	0	24	24	38
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	36.8	0	36.8	0	63.2	63.2	

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	**2**	0	**2**	0	**4**	**4**	**6**
04:45 PM	0	0	0	1	0	1	0	2	2	3
05:00 PM	0	0	0	1	0	1	0	3	3	4
05:15 PM	0	0	0	0	0	0	0	3	3	3
Total Volume	0	0	0	4	0	4	0	12	12	16
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.500	.000	.500	.000	.750	.750	.667

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City of Upland
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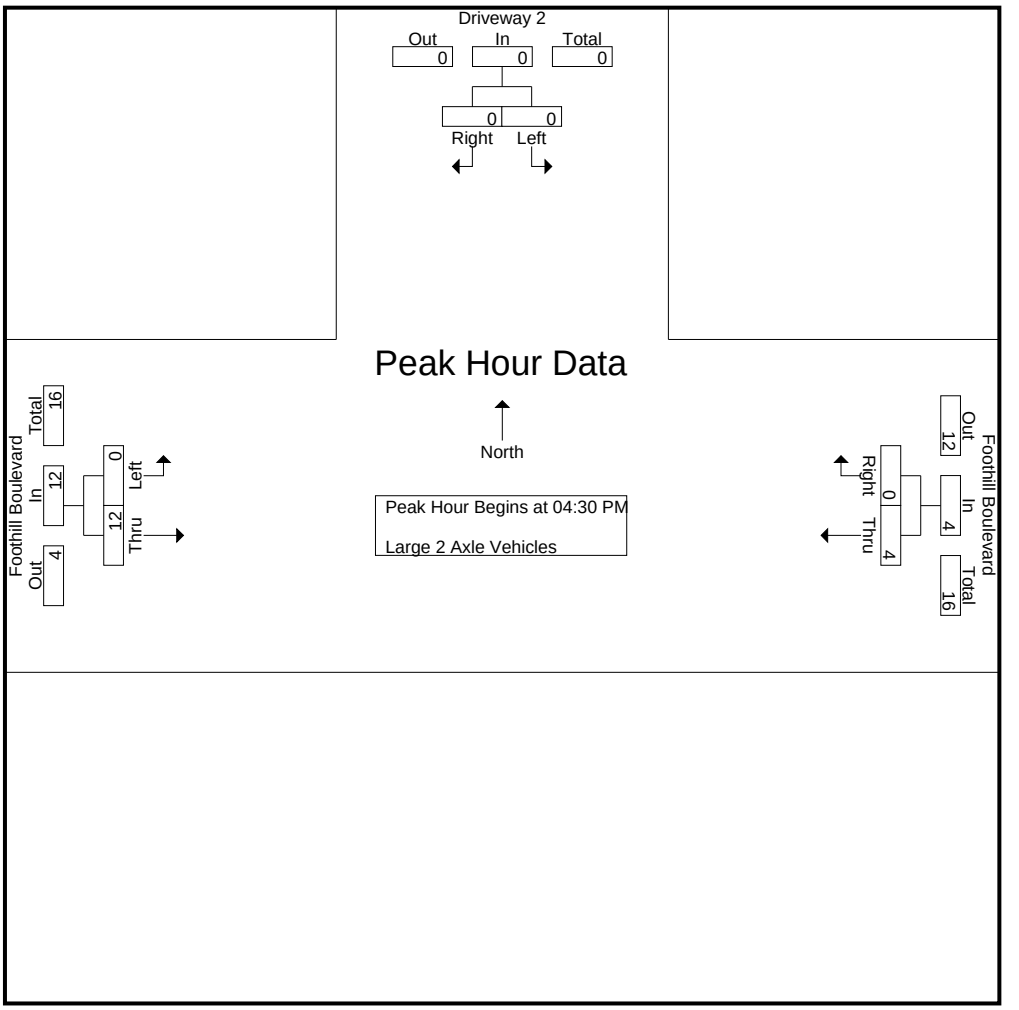

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	0	0	**2**	0	**2**	0	**4**	**4**
+15 mins.	0	0	0	1	0	1	0	2	2
+30 mins.	0	0	0	1	0	1	0	3	3
+45 mins.	0	0	0	0	0	0	0	3	3
Total Volume	0	0	0	4	0	4	0	12	12
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.500	.000	.500	.000	.750	.750

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	2	2	2
04:15 PM	0	0	0	1	0	1	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	2	2	3
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	1	1	1
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	1	1	1
Grand Total	0	0	0	1	0	1	0	3	3	4
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	25	0	25	0	75	75	

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot PM
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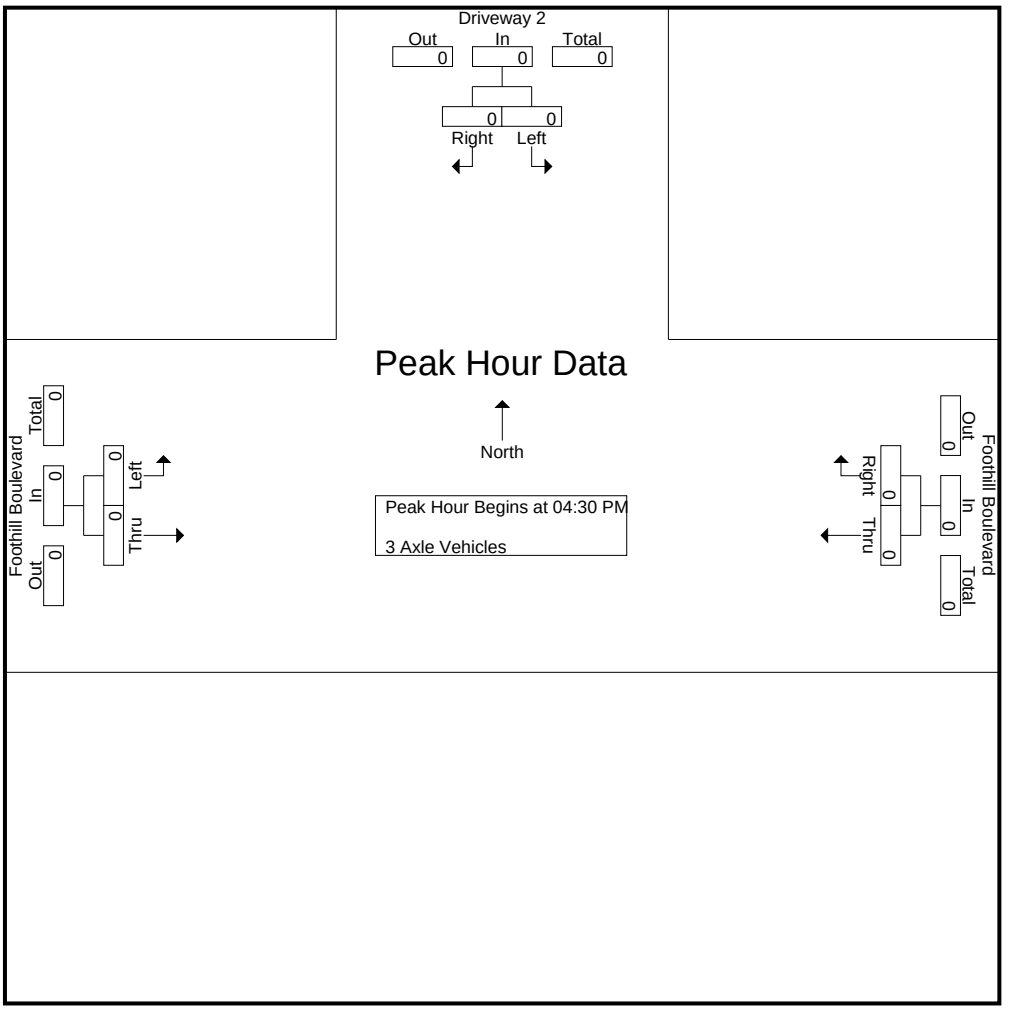

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

File Name : 04_UPL_DW 2_Foot PM
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Groups Printed- 4+ Axle Trucks

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	1	0	1	0	1	1	2
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	1	1	2
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	1	0	1	0	1	1	2
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	50	0	50	0	50	50	

	Driveway 2 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Upland
N/S: Driveway 2
E/W: Foothill Boulevard
Weather: Clear

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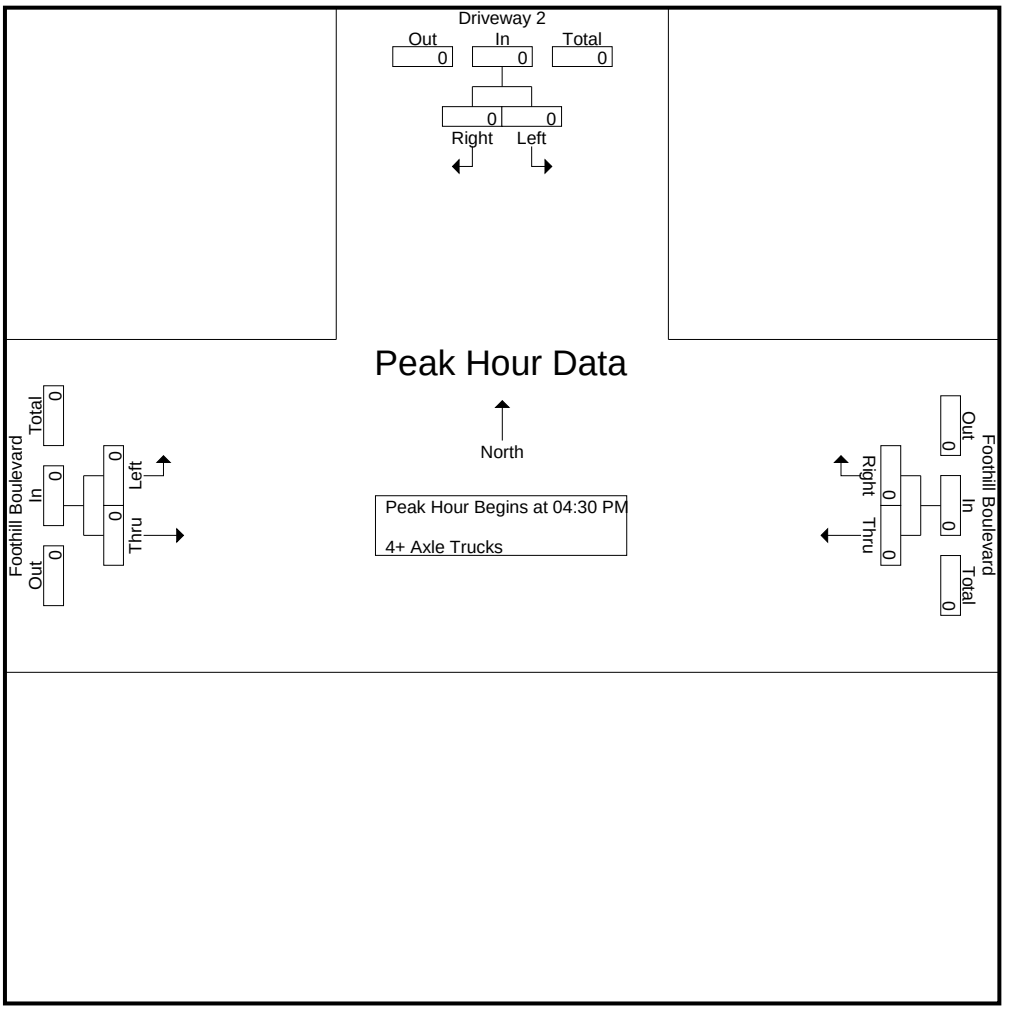

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000

Location: Upland
N/S: Driveway 2
E/W: Foothill Boulevard

Date: 10/26/2022
Day: Wednesday

PEDESTRIANS

	North Leg Driveway 2	East Leg Foothill Boulevard	South Leg Dead End	West Leg Foothill Boulevard	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	1	1
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	2	0	0	1	3
8:15 AM	0	0	0	0	0
8:30 AM	1	0	0	0	1
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	3	0	0	2	5

	North Leg Driveway 2	East Leg Foothill Boulevard	South Leg Dead End	West Leg Foothill Boulevard	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	2	1	0	0	3
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	1	0	0	0	1
TOTAL VOLUMES:	3	1	0	0	4

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Location: Upland
N/S: Driveway 2
E/W: Foothill Boulevard

Date: 10/26/2022
Day: Wednesday

BICYCLES

	Southbound Driveway 2			Westbound Foothill Boulevard			Northbound Dead End			Eastbound Foothill Boulevard			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
8:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	2	0	0	0	0	0	0	0	2
TOTAL VOLUMES:	0	0	0	0	5	0	0	0	0	0	3	0	8

	Southbound Driveway 2			Westbound Foothill Boulevard			Northbound Dead End			Eastbound Foothill Boulevard			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
4:45 PM	0	0	0	0	1	0	0	0	0	0	2	0	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
5:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	2	0	0	0	0	0	5	0	7

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City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	182	0	182	0	64	64	246
07:15 AM	0	0	0	173	0	173	0	87	87	260
07:30 AM	0	0	0	229	1	230	2	142	144	374
07:45 AM	0	0	0	269	0	269	0	140	140	409
Total	0	0	0	853	1	854	2	433	435	1289
08:00 AM	0	0	0	222	1	223	0	172	172	395
08:15 AM	0	0	0	206	0	206	0	165	165	371
08:30 AM	1	0	1	202	0	202	1	145	146	349
08:45 AM	0	0	0	190	0	190	0	147	147	337
Total	1	0	1	820	1	821	1	629	630	1452
Grand Total	1	0	1	1673	2	1675	3	1062	1065	2741
Apprch %	100	0		99.9	0.1		0.3	99.7		
Total %	0	0	0	61	0.1	61.1	0.1	38.7	38.9	
Passenger Vehicles	1	0	1	1625	2	1627	3	1013	1016	2644
% Passenger Vehicles	100	0	100	97.1	100	97.1	100	95.4	95.4	96.5
Large 2 Axle Vehicles	0	0	0	29	0	29	0	29	29	58
% Large 2 Axle Vehicles	0	0	0	1.7	0	1.7	0	2.7	2.7	2.1
3 Axle Vehicles	0	0	0	12	0	12	0	5	5	17
% 3 Axle Vehicles	0	0	0	0.7	0	0.7	0	0.5	0.5	0.6
4+ Axle Trucks	0	0	0	7	0	7	0	15	15	22
% 4+ Axle Trucks	0	0	0	0.4	0	0.4	0	1.4	1.4	0.8

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	229	**1**	230	**2**	142	144	374
07:45 AM	0	0	0	**269**	0	**269**	0	140	140	**409**
08:00 AM	0	0	0	222	1	223	0	**172**	**172**	395
08:15 AM	0	0	0	206	0	206	0	165	165	371
Total Volume	0	0	0	926	2	928	2	619	621	1549
% App. Total	0	0		99.8	0.2		0.3	99.7		
PHF	.000	.000	.000	.861	.500	.862	.250	.900	.903	.947

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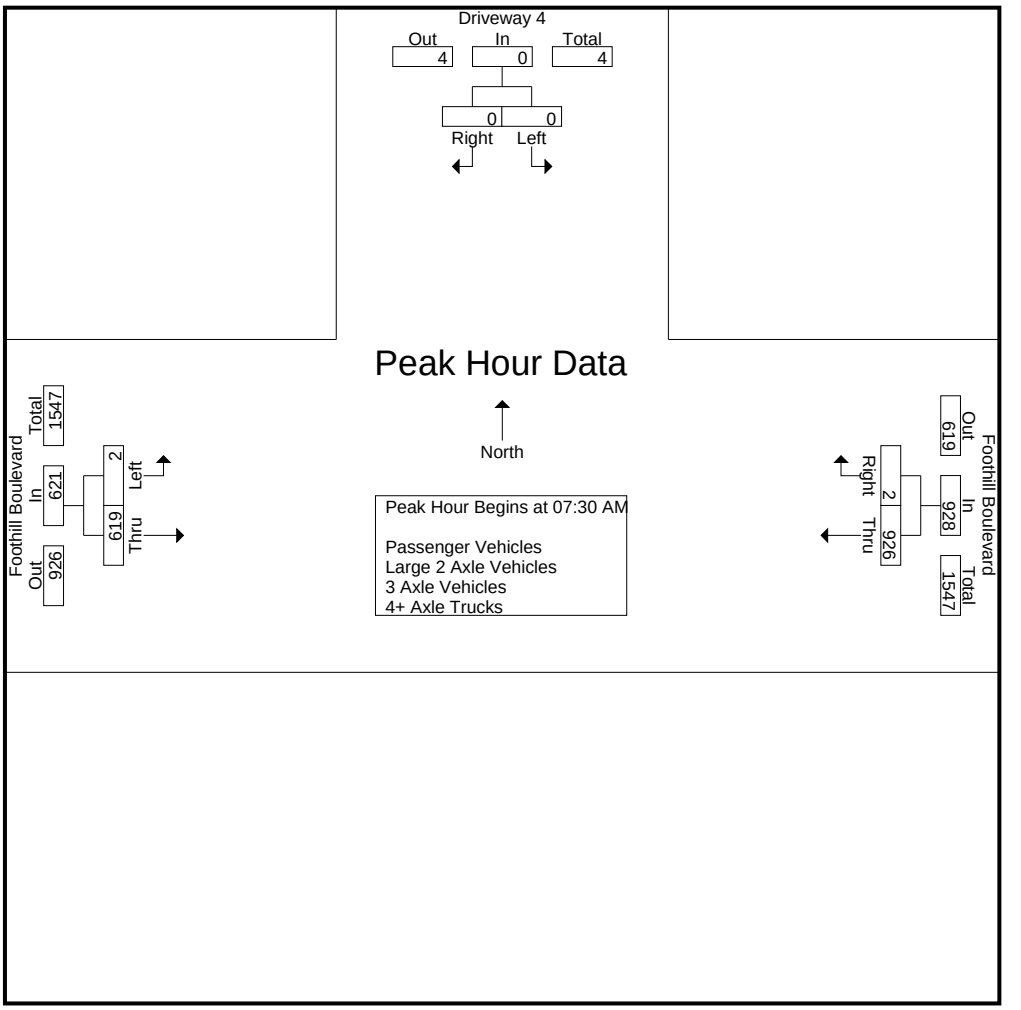
City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot AM
Site Code : 00322974
Start Date : 10/26/2022



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:30 AM			08:00 AM		
+0 mins.	0	0	0	229	**1**	230	0	**172**	**172**
+15 mins.	0	0	0	**269**	0	**269**	0	165	165
+30 mins.	0	0	0	222	1	223	**1**	145	146
+45 mins.	**1**	0	**1**	206	0	206	0	147	147
Total Volume	1	0	1	926	2	928	1	629	630
% App. Total	100	0		99.8	0.2		0.2	99.8	
PHF	.250	.000	.250	.861	.500	.862	.250	.914	.916

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Groups Printed- Passenger Vehicles

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	175	0	175	0	63	63	238
07:15 AM	0	0	0	167	0	167	0	80	80	247
07:30 AM	0	0	0	218	1	219	2	138	140	359
07:45 AM	0	0	0	263	0	263	0	135	135	398
Total	0	0	0	823	1	824	2	416	418	1242
08:00 AM	0	0	0	221	1	222	0	160	160	382
08:15 AM	0	0	0	201	0	201	0	154	154	355
08:30 AM	1	0	1	197	0	197	1	141	142	340
08:45 AM	0	0	0	183	0	183	0	142	142	325
Total	1	0	1	802	1	803	1	597	598	1402
Grand Total	1	0	1	1625	2	1627	3	1013	1016	2644
Apprch %	100	0		99.9	0.1		0.3	99.7		
Total %	0	0	0	61.5	0.1	61.5	0.1	38.3	38.4	

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	218	**1**	219	**2**	138	140	359
07:45 AM	0	0	0	**263**	0	**263**	0	135	135	**398**
08:00 AM	0	0	0	221	1	222	0	**160**	**160**	382
08:15 AM	0	0	0	201	0	201	0	154	154	355
Total Volume	0	0	0	903	2	905	2	587	589	1494
% App. Total	0	0		99.8	0.2		0.3	99.7		
PHF	.000	.000	.000	.858	.500	.860	.250	.917	.920	.938

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File Name : 06_UPL_DW 4_Foot AM
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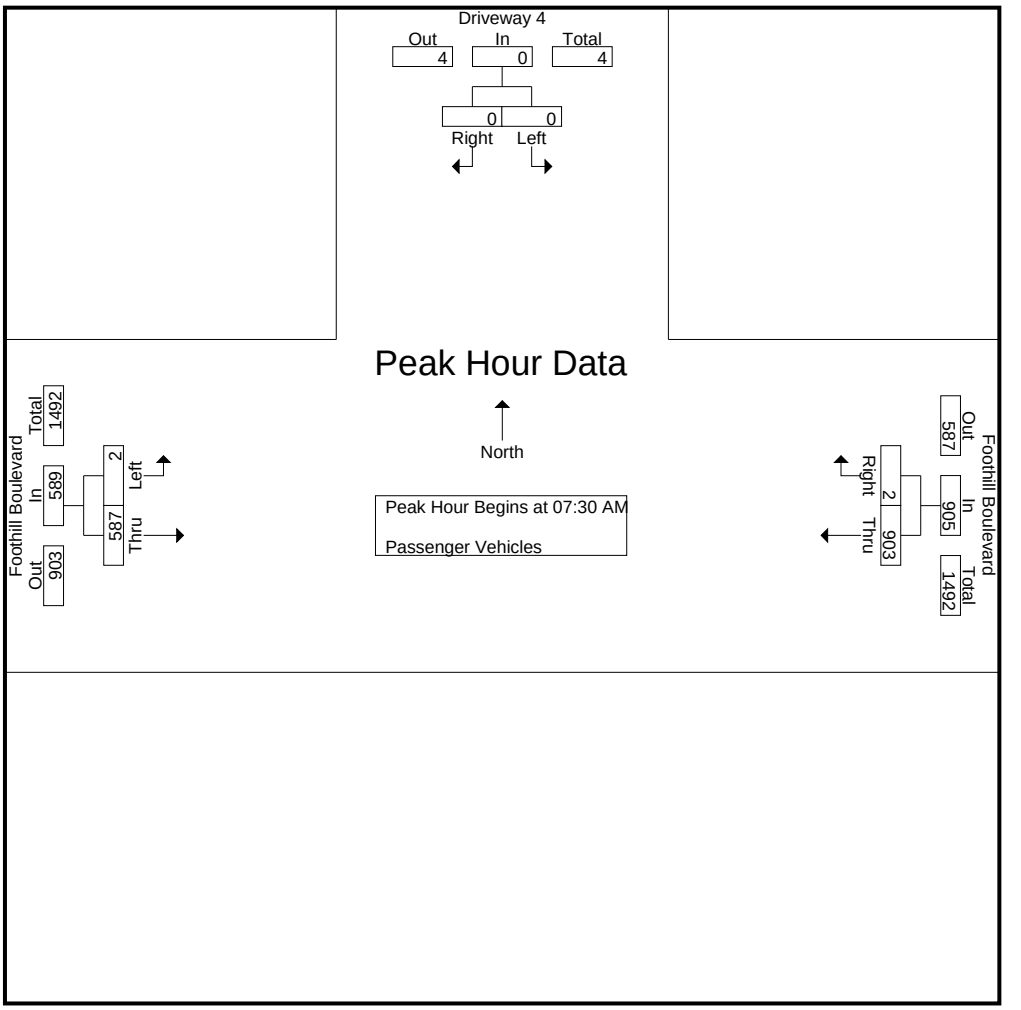

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	218	**1**	219	**2**	138	140
+15 mins.	0	0	0	**263**	0	**263**	0	135	135
+30 mins.	0	0	0	221	1	222	0	**160**	**160**
+45 mins.	0	0	0	201	0	201	0	154	154
Total Volume	0	0	0	903	2	905	2	587	589
% App. Total	0	0		99.8	0.2		0.3	99.7	
PHF	.000	.000	.000	.858	.500	.860	.250	.917	.920

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Groups Printed- Large 2 Axle Vehicles

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	3	0	3	0	1	1	4
07:15 AM	0	0	0	4	0	4	0	4	4	8
07:30 AM	0	0	0	7	0	7	0	2	2	9
07:45 AM	0	0	0	5	0	5	0	3	3	8
Total	0	0	0	19	0	19	0	10	10	29
08:00 AM	0	0	0	1	0	1	0	8	8	9
08:15 AM	0	0	0	2	0	2	0	6	6	8
08:30 AM	0	0	0	3	0	3	0	4	4	7
08:45 AM	0	0	0	4	0	4	0	1	1	5
Total	0	0	0	10	0	10	0	19	19	29
Grand Total	0	0	0	29	0	29	0	29	29	58
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	50	0	50	0	50	50	

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**7**	0	**7**	0	2	2	**9**
07:45 AM	0	0	0	5	0	5	0	3	3	8
08:00 AM	0	0	0	1	0	1	0	**8**	**8**	9
08:15 AM	0	0	0	2	0	2	0	6	6	8
Total Volume	0	0	0	15	0	15	0	19	19	34
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.536	.000	.536	.000	.594	.594	.944

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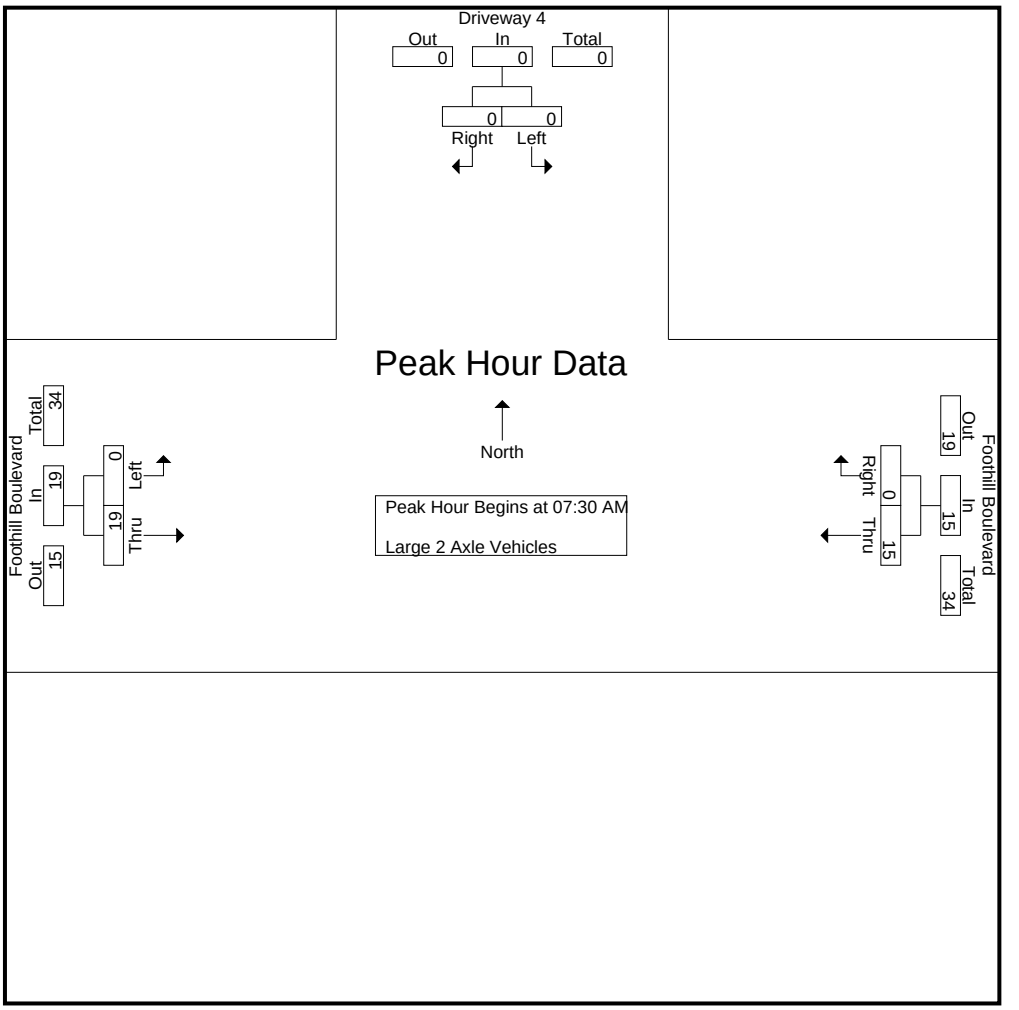

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**7**	0	**7**	0	2	2
+15 mins.	0	0	0	5	0	5	0	3	3
+30 mins.	0	0	0	1	0	1	0	**8**	**8**
+45 mins.	0	0	0	2	0	2	0	6	6
Total Volume	0	0	0	15	0	15	0	19	19
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.536	.000	.536	.000	.594	.594

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City of Upland
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Groups Printed- 3 Axle Vehicles

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	2	0	2	0	0	0	2
07:15 AM	0	0	0	0	0	0	0	1	1	1
07:30 AM	0	0	0	3	0	3	0	1	1	4
07:45 AM	0	0	0	1	0	1	0	0	0	1
Total	0	0	0	6	0	6	0	2	2	8
08:00 AM	0	0	0	0	0	0	0	1	1	1
08:15 AM	0	0	0	2	0	2	0	2	2	4
08:30 AM	0	0	0	1	0	1	0	0	0	1
08:45 AM	0	0	0	3	0	3	0	0	0	3
Total	0	0	0	6	0	6	0	3	3	9
Grand Total	0	0	0	12	0	12	0	5	5	17
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	70.6	0	70.6	0	29.4	29.4	

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**3**	0	**3**	0	1	1	**4**
07:45 AM	0	0	0	1	0	1	0	0	0	1
08:00 AM	0	0	0	0	0	0	0	1	1	1
08:15 AM	0	0	0	2	0	2	0	**2**	**2**	4
Total Volume	0	0	0	6	0	6	0	4	4	10
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.500	.000	.500	.000	.500	.500	.625

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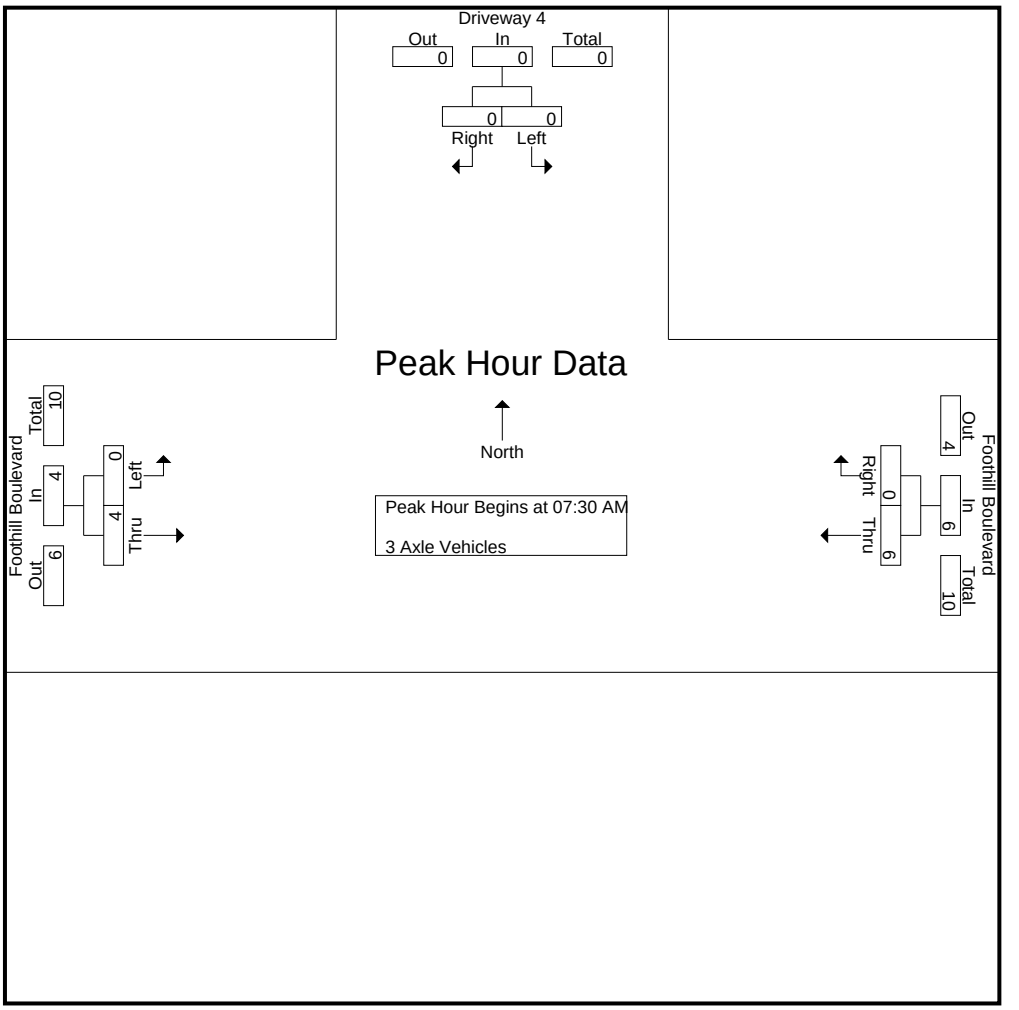

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**3**	0	**3**	0	1	1
+15 mins.	0	0	0	1	0	1	0	0	0
+30 mins.	0	0	0	0	0	0	0	1	1
+45 mins.	0	0	0	2	0	2	0	**2**	**2**
Total Volume	0	0	0	6	0	6	0	4	4
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.500	.000	.500	.000	.500	.500

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Groups Printed- 4+ Axle Trucks

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	0	0	0	2	0	2	0	0	0	2
07:15 AM	0	0	0	2	0	2	0	2	2	4
07:30 AM	0	0	0	1	0	1	0	1	1	2
07:45 AM	0	0	0	0	0	0	0	2	2	2
Total	0	0	0	5	0	5	0	5	5	10
08:00 AM	0	0	0	0	0	0	0	3	3	3
08:15 AM	0	0	0	1	0	1	0	3	3	4
08:30 AM	0	0	0	1	0	1	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	4	4	4
Total	0	0	0	2	0	2	0	10	10	12
Grand Total	0	0	0	7	0	7	0	15	15	22
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	31.8	0	31.8	0	68.2	68.2	

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:30 AM										
07:30 AM	0	0	0	**1**	0	**1**	0	1	1	2
07:45 AM	0	0	0	0	0	0	0	2	2	2
08:00 AM	0	0	0	0	0	0	0	**3**	**3**	3
08:15 AM	0	0	0	1	0	1	0	3	3	**4**
Total Volume	0	0	0	2	0	2	0	9	9	11
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.500	.000	.500	.000	.750	.750	.688

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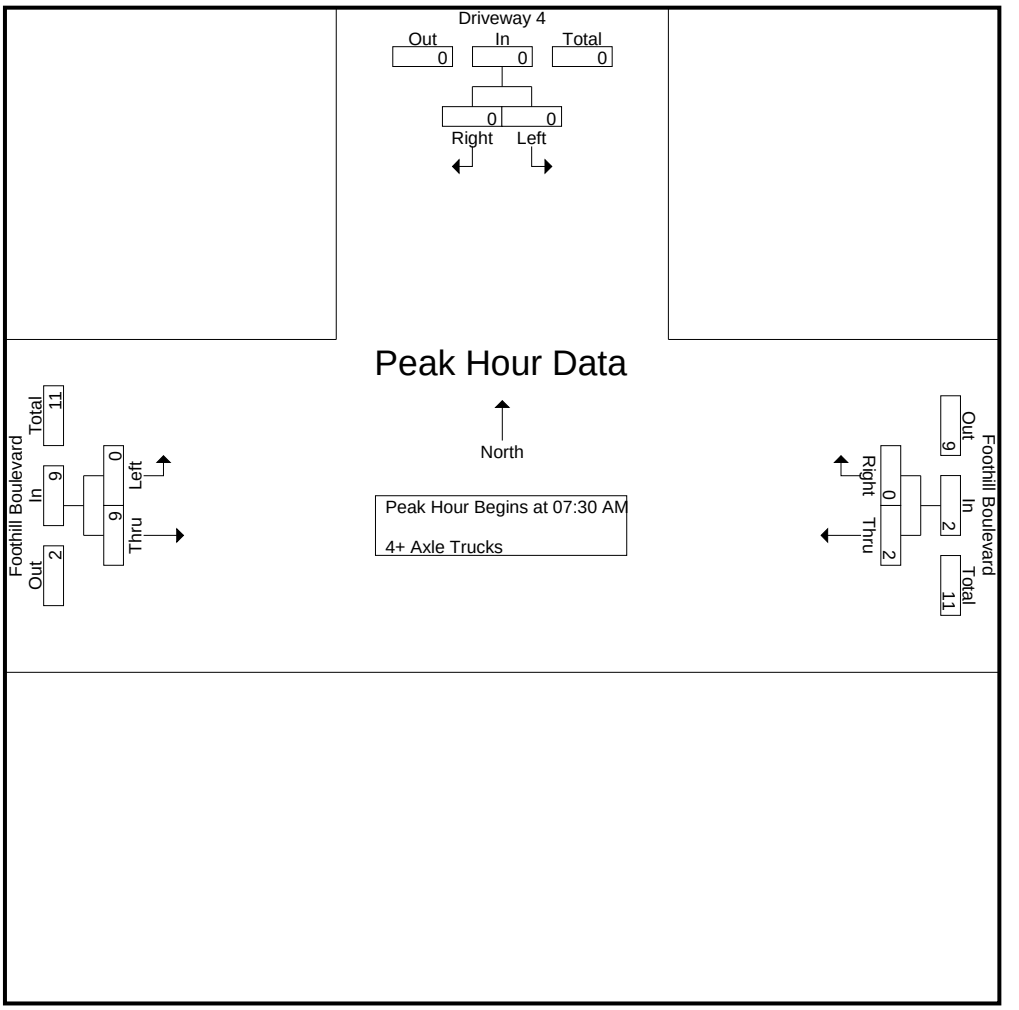

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM			07:30 AM			07:30 AM		
+0 mins.	0	0	0	**1**	0	**1**	0	1	1
+15 mins.	0	0	0	0	0	0	0	2	2
+30 mins.	0	0	0	0	0	0	0	**3**	**3**
+45 mins.	0	0	0	1	0	1	0	3	3
Total Volume	0	0	0	2	0	2	0	9	9
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.500	.000	.500	.000	.750	.750

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	199	0	199	0	347	347	546
04:15 PM	0	0	0	195	0	195	1	350	351	546
04:30 PM	1	0	1	225	1	226	1	323	324	551
04:45 PM	0	0	0	187	1	188	0	341	341	529
Total	1	0	1	806	2	808	2	1361	1363	2172
05:00 PM	0	0	0	219	0	219	1	363	364	583
05:15 PM	0	0	0	204	0	204	0	402	402	606
05:30 PM	0	0	0	185	0	185	1	325	326	511
05:45 PM	0	0	0	216	1	217	0	316	316	533
Total	0	0	0	824	1	825	2	1406	1408	2233
Grand Total	1	0	1	1630	3	1633	4	2767	2771	4405
Apprch %	100	0		99.8	0.2		0.1	99.9		
Total %	0	0	0	37	0.1	37.1	0.1	62.8	62.9	
Passenger Vehicles	1	0	1	1612	3	1615	4	2738	2742	4358
% Passenger Vehicles	100	0	100	98.9	100	98.9	100	99	99	98.9
Large 2 Axle Vehicles	0	0	0	16	0	16	0	25	25	41
% Large 2 Axle Vehicles	0	0	0	1	0	1	0	0.9	0.9	0.9
3 Axle Vehicles	0	0	0	1	0	1	0	3	3	4
% 3 Axle Vehicles	0	0	0	0.1	0	0.1	0	0.1	0.1	0.1
4+ Axle Trucks	0	0	0	1	0	1	0	1	1	2
% 4+ Axle Trucks	0	0	0	0.1	0	0.1	0	0	0	0

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	**1**	0	**1**	**225**	**1**	**226**	**1**	323	324	551
04:45 PM	0	0	0	187	1	188	0	341	341	529
05:00 PM	0	0	0	219	0	219	1	363	364	583
05:15 PM	0	0	0	204	0	204	0	**402**	**402**	**606**
Total Volume	1	0	1	835	2	837	2	1429	1431	2269
% App. Total	100	0		99.8	0.2		0.1	99.9		
PHF	.250	.000	.250	.928	.500	.926	.500	.889	.890	.936

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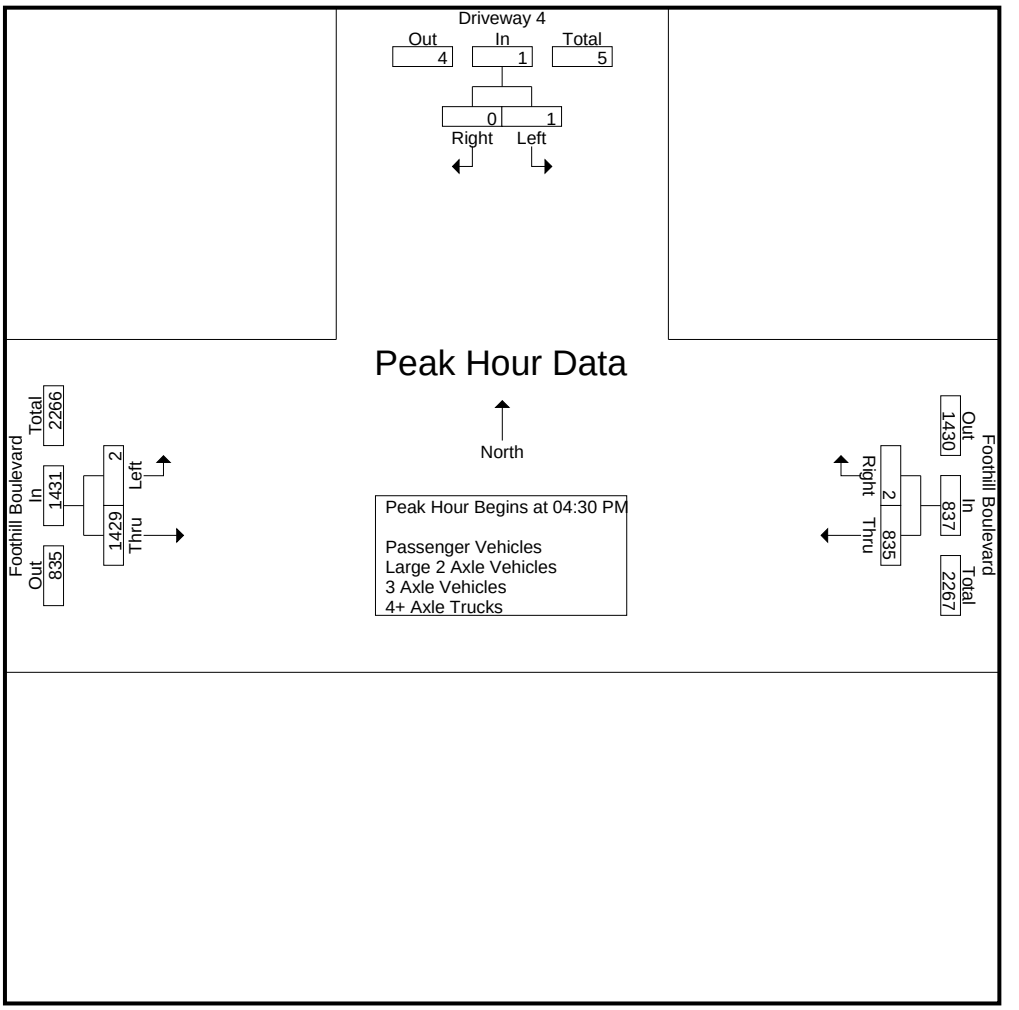

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM			04:30 PM			04:45 PM		
+0 mins.	0	0	0	**225**	**1**	**226**	0	341	341
+15 mins.	0	0	0	187	1	188	**1**	363	364
+30 mins.	**1**	0	**1**	219	0	219	0	**402**	**402**
+45 mins.	0	0	0	204	0	204	1	325	326
Total Volume	1	0	1	835	2	837	2	1431	1433
% App. Total	100	0		99.8	0.2		0.1	99.9	
PHF	.250	.000	.250	.928	.500	.926	.500	.890	.891

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City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Passenger Vehicles

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	196	0	196	0	340	340	536
04:15 PM	0	0	0	191	0	191	1	347	348	539
04:30 PM	1	0	1	223	1	224	1	319	320	545
04:45 PM	0	0	0	186	1	187	0	338	338	525
Total	1	0	1	796	2	798	2	1344	1346	2145
05:00 PM	0	0	0	217	0	217	1	360	361	578
05:15 PM	0	0	0	204	0	204	0	399	399	603
05:30 PM	0	0	0	179	0	179	1	322	323	502
05:45 PM	0	0	0	216	1	217	0	313	313	530
Total	0	0	0	816	1	817	2	1394	1396	2213
Grand Total	1	0	1	1612	3	1615	4	2738	2742	4358
Apprch %	100	0		99.8	0.2		0.1	99.9		
Total %	0	0	0	37	0.1	37.1	0.1	62.8	62.9	

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	**1**	0	**1**	**223**	**1**	**224**	**1**	319	320	545
04:45 PM	0	0	0	186	1	187	0	338	338	525
05:00 PM	0	0	0	217	0	217	1	360	361	578
05:15 PM	0	0	0	204	0	204	0	**399**	**399**	**603**
Total Volume	1	0	1	830	2	832	2	1416	1418	2251
% App. Total	100	0		99.8	0.2		0.1	99.9		
PHF	.250	.000	.250	.930	.500	.929	.500	.887	.888	.933

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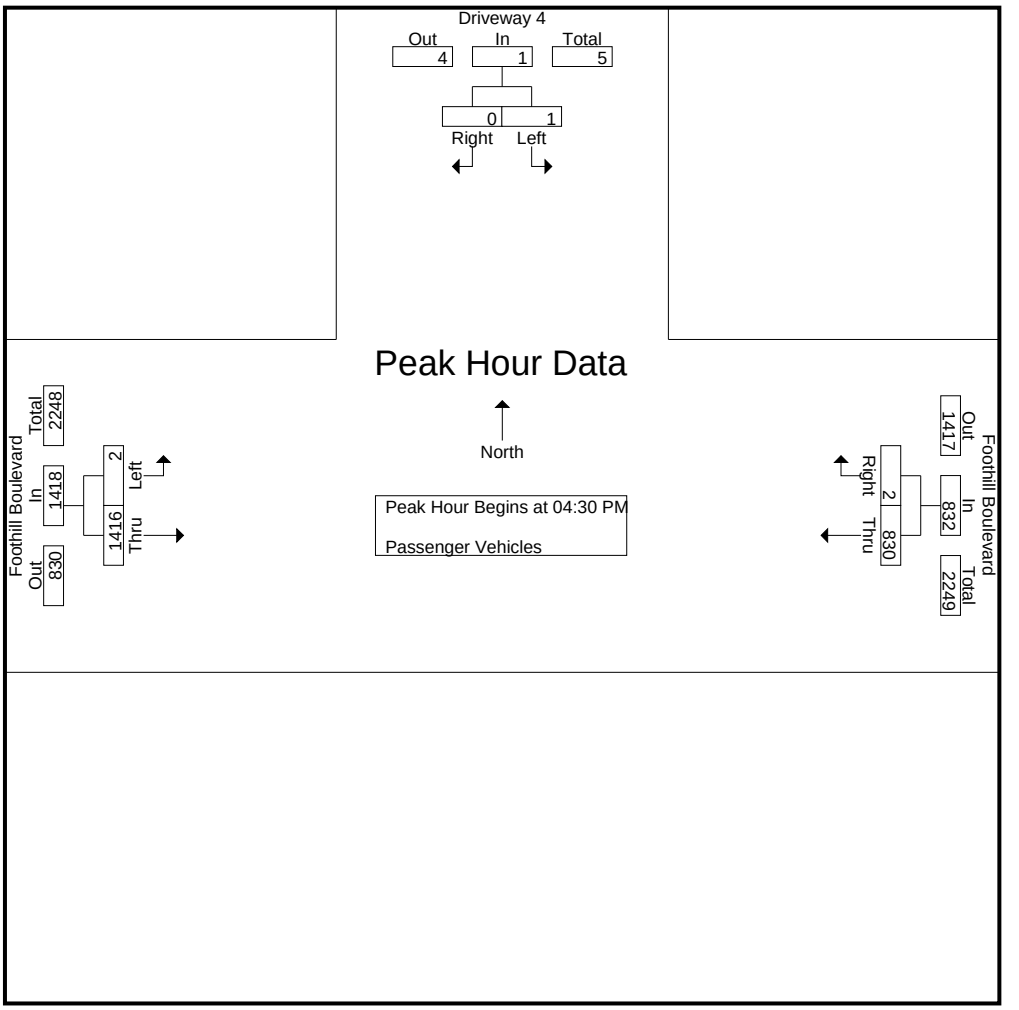
City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot PM
Site Code : 00322974
Start Date : 10/26/2022



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	**1**	0	**1**	**223**	**1**	**224**	**1**	319	320
+15 mins.	0	0	0	186	1	187	0	338	338
+30 mins.	0	0	0	217	0	217	1	360	361
+45 mins.	0	0	0	204	0	204	0	**399**	**399**
Total Volume	1	0	1	830	2	832	2	1416	1418
% App. Total	100	0		99.8	0.2		0.1	99.9	
PHF	.250	.000	.250	.930	.500	.929	.500	.887	.888

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City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	2	0	2	0	4	4	6
04:15 PM	0	0	0	3	0	3	0	3	3	6
04:30 PM	0	0	0	2	0	2	0	4	4	6
04:45 PM	0	0	0	1	0	1	0	3	3	4
Total	0	0	0	8	0	8	0	14	14	22
05:00 PM	0	0	0	2	0	2	0	3	3	5
05:15 PM	0	0	0	0	0	0	0	3	3	3
05:30 PM	0	0	0	6	0	6	0	2	2	8
05:45 PM	0	0	0	0	0	0	0	3	3	3
Total	0	0	0	8	0	8	0	11	11	19
Grand Total	0	0	0	16	0	16	0	25	25	41
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	39	0	39	0	61	61	

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	**2**	0	**2**	0	**4**	**4**	**6**
04:45 PM	0	0	0	1	0	1	0	3	3	4
05:00 PM	0	0	0	2	0	2	0	3	3	5
05:15 PM	0	0	0	0	0	0	0	3	3	3
Total Volume	0	0	0	5	0	5	0	13	13	18
% App. Total	0	0		100	0		0	100		
PHF	.000	.000	.000	.625	.000	.625	.000	.813	.813	.750

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City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot PM
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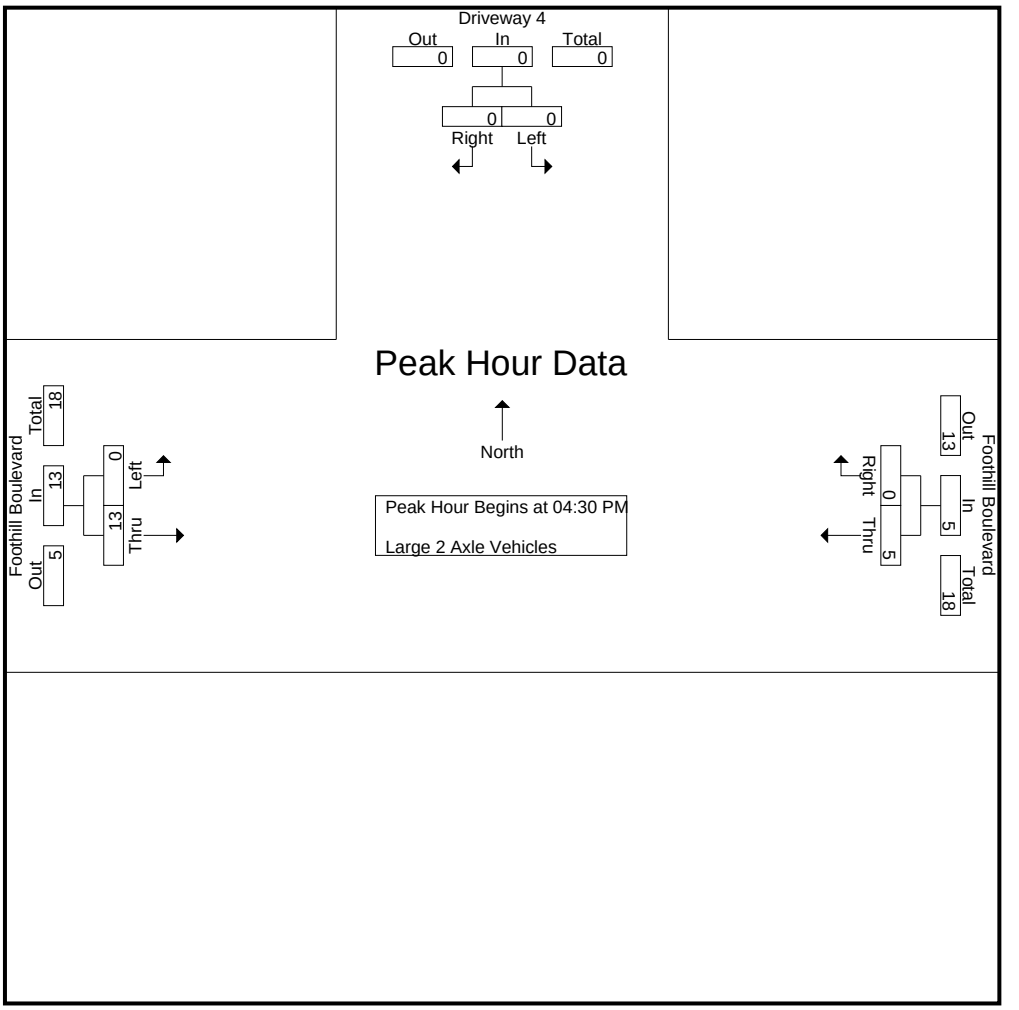

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	0	0	**2**	0	**2**	0	**4**	**4**
+15 mins.	0	0	0	1	0	1	0	3	3
+30 mins.	0	0	0	2	0	2	0	3	3
+45 mins.	0	0	0	0	0	0	0	3	3
Total Volume	0	0	0	5	0	5	0	13	13
% App. Total	0	0		100	0		0	100	
PHF	.000	.000	.000	.625	.000	.625	.000	.813	.813

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City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
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Groups Printed- 3 Axle Vehicles

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	2	2	2
04:15 PM	0	0	0	1	0	1	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	2	2	3
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	1	1	1
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	1	1	1
Grand Total	0	0	0	1	0	1	0	3	3	4
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	25	0	25	0	75	75	

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot PM
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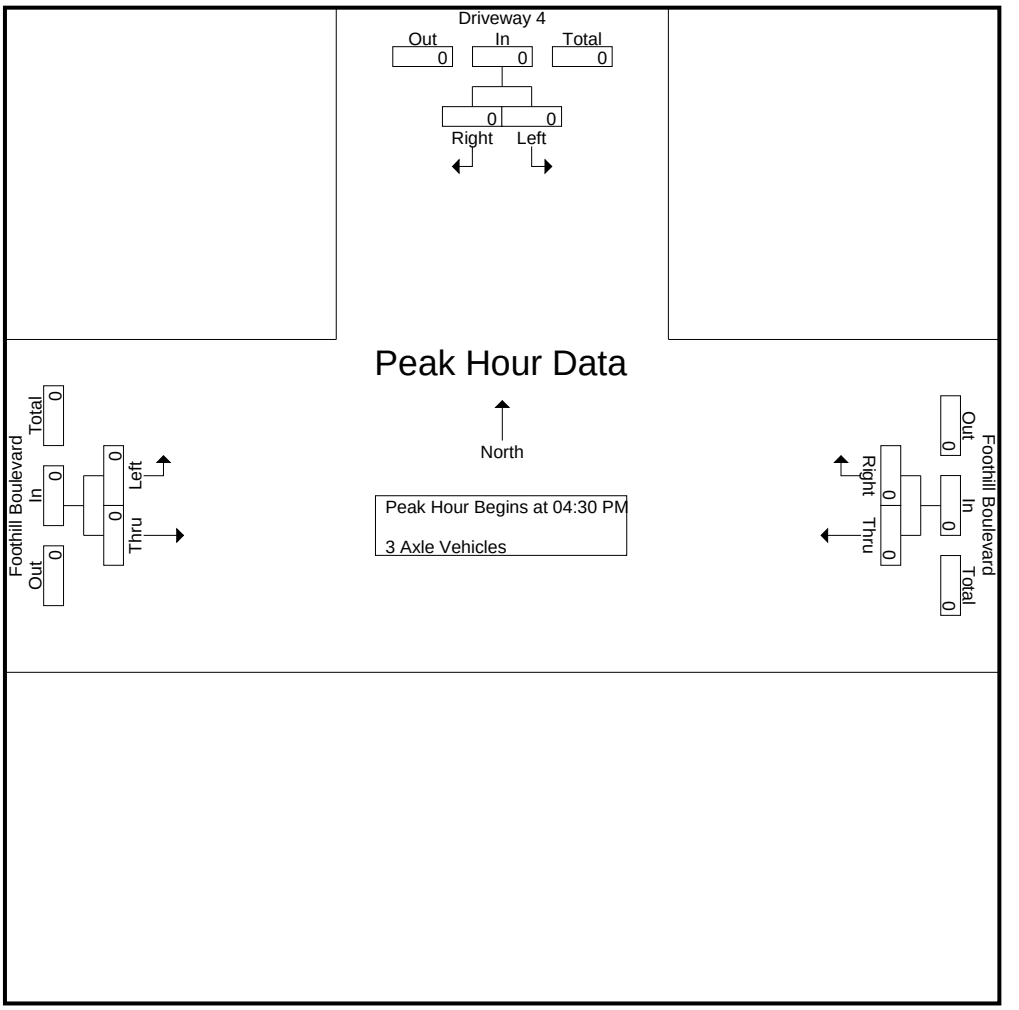

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000

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City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
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Groups Printed- 4+ Axle Trucks

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	0	0	0	1	0	1	0	1	1	2
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	1	0	1	1	2
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	1	0	1	0	1	1	2
Apprch %	0	0		100	0		0	100		
Total %	0	0	0	50	0	50	0	50	50	

	Driveway 4 Southbound			Foothill Boulevard Westbound			Foothill Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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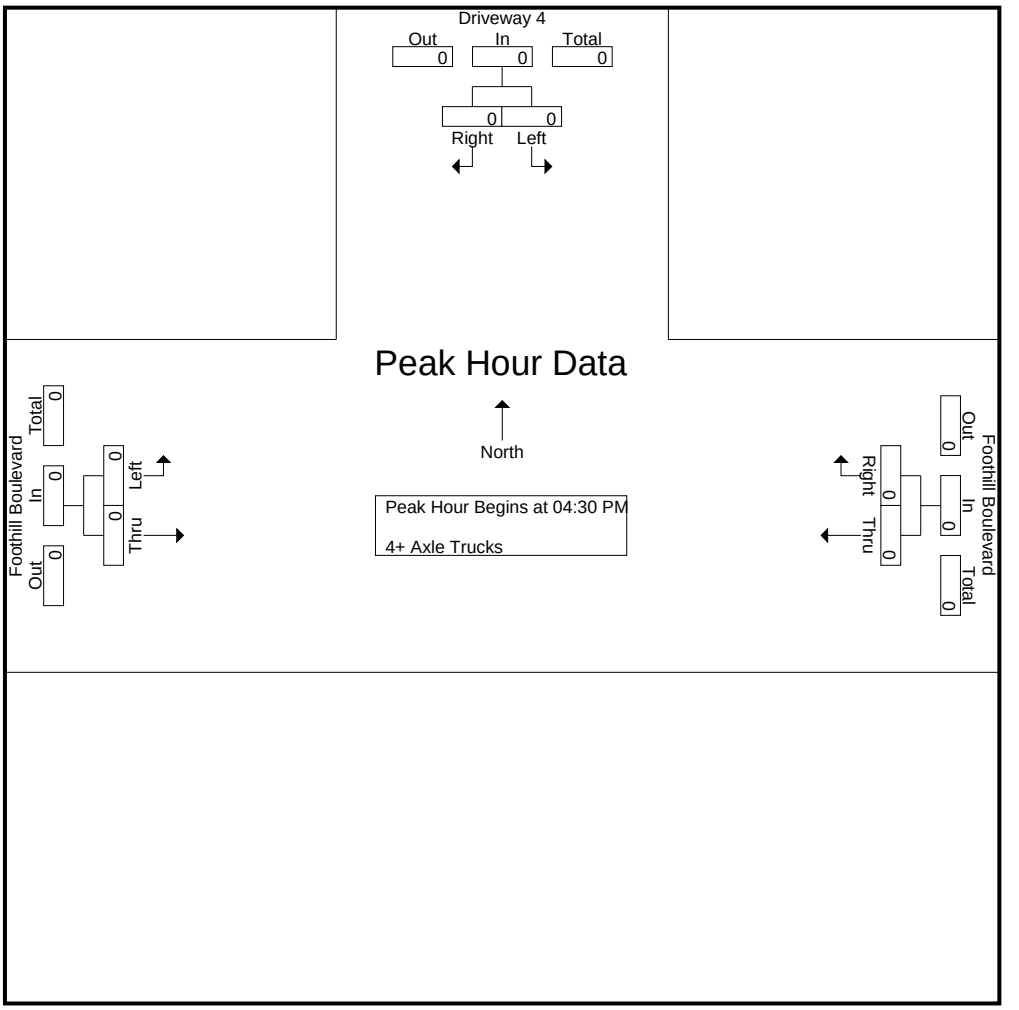
City of Upland
N/S: Driveway 4
E/W: Foothill Boulevard
Weather: Clear

File Name : 06_UPL_DW 4_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000

Location: Upland
N/S: Driveway 4
E/W: Foothill Boulevard

Date: 10/26/2022
Day: Wednesday

PEDESTRIANS

	North Leg Driveway 4 Pedestrians	East Leg Foothill Boulevard Pedestrians	South Leg Dead End Pedestrians	West Leg Foothill Boulevard Pedestrians	
7:00 AM	0	0	0	1	1
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	1	1	0	0	2
8:00 AM	0	0	0	0	0
8:15 AM	1	0	0	0	1
8:30 AM	9	1	0	0	10
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	11	2	0	1	14

	North Leg Driveway 4 Pedestrians	East Leg Foothill Boulevard Pedestrians	South Leg Dead End Pedestrians	West Leg Foothill Boulevard Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	1	0	0	1	2
4:30 PM	0	0	0	0	0
4:45 PM	1	0	0	0	1
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	2	0	0	1	3

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Location: Upland
N/S: Driveway 4
E/W: Foothill Boulevard

Date: 10/26/2022
Day: Wednesday

BICYCLES

	Southbound Driveway 4			Westbound Foothill Boulevard			Northbound Dead End			Eastbound Foothill Boulevard			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
7:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL VOLUMES:	0	0	0	0	5	0	0	0	0	0	2	0	7

	Southbound Driveway 4			Westbound Foothill Boulevard			Northbound Dead End			Eastbound Foothill Boulevard			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
4:45 PM	0	0	0	0	1	0	0	0	0	0	2	0	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
5:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	2	0	0	0	0	0	5	0	7

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City of Upland
N/S: Benson Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 08_UPL_Ben_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	5	76	36	117	31	124	14	169	13	48	13	74	13	43	0	56	416
07:15 AM	11	79	34	124	22	144	30	196	12	69	15	96	22	54	3	79	495
07:30 AM	23	86	46	155	23	143	36	202	18	68	13	99	24	87	12	123	579
07:45 AM	24	151	60	235	34	190	35	259	9	73	23	105	30	92	7	129	728
Total	63	392	176	631	110	601	115	826	52	258	64	374	89	276	22	387	2218
08:00 AM	30	136	46	212	31	128	31	190	18	46	21	85	28	120	17	165	652
08:15 AM	39	96	47	182	25	133	39	197	20	54	16	90	23	85	17	125	594
08:30 AM	16	91	38	145	26	135	17	178	19	49	20	88	23	98	14	135	546
08:45 AM	23	74	31	128	24	130	13	167	19	42	16	77	23	116	11	150	522
Total	108	397	162	667	106	526	100	732	76	191	73	340	97	419	59	575	2314
Grand Total	171	789	338	1298	216	1127	215	1558	128	449	137	714	186	695	81	962	4532
Apprch %	13.2	60.8	26		13.9	72.3	13.8		17.9	62.9	19.2		19.3	72.2	8.4		
Total %	3.8	17.4	7.5	28.6	4.8	24.9	4.7	34.4	2.8	9.9	3	15.8	4.1	15.3	1.8	21.2	
Passenger Vehicles	165	775	331	1271	211	1102	206	1519	117	434	127	678	179	657	74	910	4378
% Passenger Vehicles	96.5	98.2	97.9	97.9	97.7	97.8	95.8	97.5	91.4	96.7	92.7	95	96.2	94.5	91.4	94.6	96.6
Large 2 Axle Vehicles	1	11	4	16	4	10	2	16	10	15	7	32	6	21	7	34	98
% Large 2 Axle Vehicles	0.6	1.4	1.2	1.2	1.9	0.9	0.9	1	7.8	3.3	5.1	4.5	3.2	3	8.6	3.5	2.2
3 Axle Vehicles	4	2	2	8	0	9	5	14	0	0	1	1	1	11	0	12	35
% 3 Axle Vehicles	2.3	0.3	0.6	0.6	0	0.8	2.3	0.9	0	0	0.7	0.1	0.5	1.6	0	1.2	0.8
4+ Axle Trucks	1	1	1	3	1	6	2	9	1	0	2	3	0	6	0	6	21
% 4+ Axle Trucks	0.6	0.1	0.3	0.2	0.5	0.5	0.9	0.6	0.8	0	1.5	0.4	0	0.9	0	0.6	0.5

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	23	86	46	155	23	143	36	202	18	68	13	99	24	87	12	123	579
07:45 AM	24	**151**	**60**	**235**	**34**	**190**	35	**259**	9	**73**	**23**	**105**	**30**	92	7	129	**728**
08:00 AM	30	136	46	212	31	128	31	190	18	46	21	85	28	**120**	**17**	**165**	652
08:15 AM	**39**	96	47	182	25	133	**39**	197	**20**	54	16	90	23	85	17	125	594
Total Volume	116	469	199	784	113	594	141	848	65	241	73	379	105	384	53	542	2553
% App. Total	14.8	59.8	25.4		13.3	70	16.6		17.2	63.6	19.3		19.4	70.8	9.8		
PHF	.744	.776	.829	.834	.831	.782	.904	.819	.813	.825	.793	.902	.875	.800	.779	.821	.877

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City of Upland
N/S: Benson Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 08_UPL_Ben_Foot AM
Site Code : 00322974
Start Date : 10/26/2022
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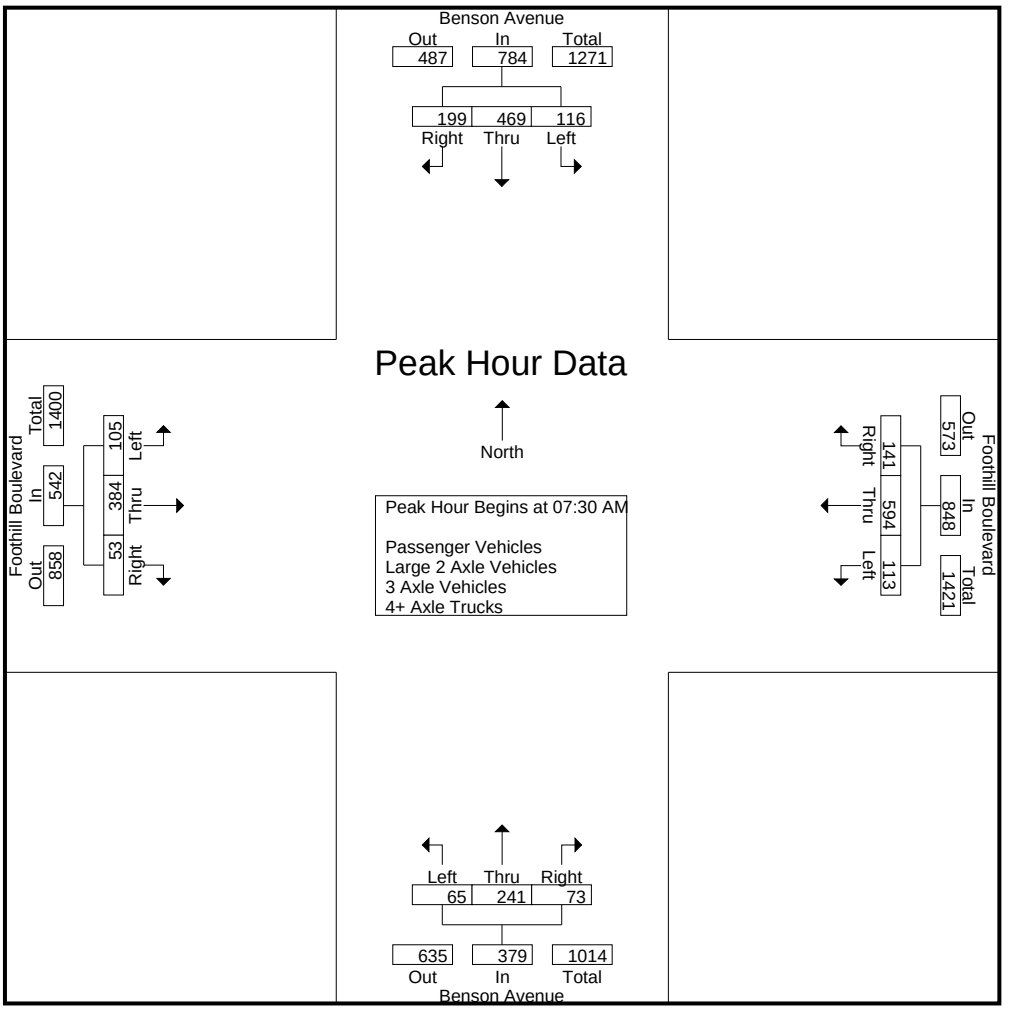

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:15 AM				08:00 AM			
+0 mins.	23	86	46	155	23	143	36	202	12	69	15	96	**28**	**120**	**17**	**165**
+15 mins.	24	**151**	**60**	**235**	**34**	**190**	35	**259**	**18**	68	13	99	23	85	17	125
+30 mins.	30	136	46	212	31	128	31	190	9	**73**	**23**	**105**	23	98	14	135
+45 mins.	**39**	96	47	182	25	133	**39**	197	18	46	21	85	23	116	11	150
Total Volume	116	469	199	784	113	594	141	848	57	256	72	385	97	419	59	575
% App. Total	14.8	59.8	25.4		13.3	70	16.6		14.8	66.5	18.7		16.9	72.9	10.3	
PHF	.744	.776	.829	.834	.831	.782	.904	.819	.792	.877	.783	.917	.866	.873	.868	.871

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City of Upland
N/S: Benson Avenue
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File Name : 08_UPL_Ben_Foot AM
Site Code : 00322974
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Groups Printed- Passenger Vehicles

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	5	74	36	115	31	122	12	165	12	44	12	68	11	42	0	53	401
07:15 AM	10	78	34	122	22	138	28	188	11	65	13	89	21	49	3	73	472
07:30 AM	21	85	42	148	23	139	36	198	17	68	12	97	24	83	12	119	562
07:45 AM	23	149	58	230	33	188	32	253	8	72	22	102	28	88	7	123	708
Total	59	386	170	615	109	587	108	804	48	249	59	356	84	262	22	368	2143
08:00 AM	29	132	46	207	30	128	31	189	18	45	21	84	27	114	13	154	634
08:15 AM	38	94	47	179	25	129	39	193	19	52	13	84	22	80	14	116	572
08:30 AM	16	90	37	143	24	132	16	172	17	48	19	84	23	92	14	129	528
08:45 AM	23	73	31	127	23	126	12	161	15	40	15	70	23	109	11	143	501
Total	106	389	161	656	102	515	98	715	69	185	68	322	95	395	52	542	2235
Grand Total	165	775	331	1271	211	1102	206	1519	117	434	127	678	179	657	74	910	4378
Apprch %	13	61	26		13.9	72.5	13.6		17.3	64	18.7		19.7	72.2	8.1		
Total %	3.8	17.7	7.6	29	4.8	25.2	4.7	34.7	2.7	9.9	2.9	15.5	4.1	15	1.7	20.8	

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	21	85	42	148	23	139	36	198	17	68	12	97	24	83	12	119	562
07:45 AM	23	**149**	**58**	**230**	**33**	**188**	32	**253**	8	**72**	**22**	**102**	**28**	88	7	123	**708**
08:00 AM	29	132	46	207	30	128	31	189	18	45	21	84	27	**114**	13	**154**	634
08:15 AM	**38**	94	47	179	25	129	**39**	193	**19**	52	13	84	22	80	**14**	116	572
Total Volume	111	460	193	764	111	584	138	833	62	237	68	367	101	365	46	512	2476
% App. Total	14.5	60.2	25.3		13.3	70.1	16.6		16.9	64.6	18.5		19.7	71.3	9		
PHF	.730	.772	.832	.830	.841	.777	.885	.823	.816	.823	.773	.900	.902	.800	.821	.831	.874

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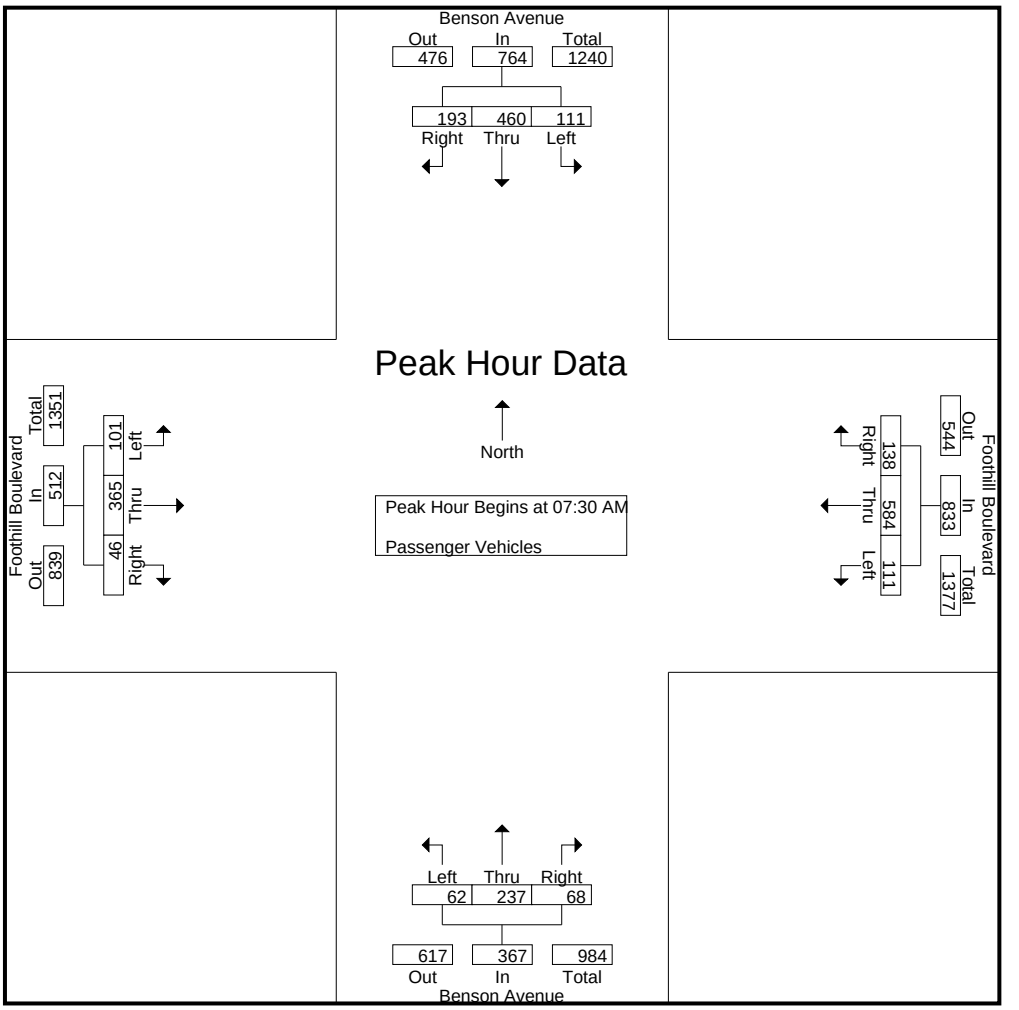
File Name : 08_UPL_Ben_Foot AM
Site Code : 00322974
Start Date : 10/26/2022



Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	21	85	42	148	23	139	36	198	17	68	12	97	24	83	12	119
+15 mins.	23	**149**	**58**	**230**	**33**	**188**	32	**253**	8	**72**	**22**	**102**	**28**	88	7	123
+30 mins.	29	132	46	207	30	128	31	189	18	45	21	84	27	**114**	13	**154**
+45 mins.	**38**	94	47	179	25	129	**39**	193	**19**	52	13	84	22	80	**14**	116
Total Volume	111	460	193	764	111	584	138	833	62	237	68	367	101	365	46	512
% App. Total	14.5	60.2	25.3		13.3	70.1	16.6		16.9	64.6	18.5		19.7	71.3	9	
PHF	.730	.772	.832	.830	.841	.777	.885	.823	.816	.823	.773	.900	.902	.800	.821	.831

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File Name : 08_UPL_Ben_Foot AM
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Groups Printed- Large 2 Axle Vehicles

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	0	0	1	1	0	4	1	5	1	1	0	2	9
07:15 AM	1	1	0	2	0	2	1	3	1	4	2	7	1	2	0	3	15
07:30 AM	0	1	2	3	0	3	0	3	1	0	1	2	0	2	0	2	10
07:45 AM	0	2	1	3	1	2	0	3	1	1	0	2	2	2	0	4	12
Total	1	5	3	9	1	7	2	10	3	9	4	16	4	7	0	11	46
08:00 AM	0	2	0	2	1	0	0	1	0	1	0	1	1	3	4	8	12
08:15 AM	0	2	0	2	0	1	0	1	1	2	3	6	1	2	3	6	15
08:30 AM	0	1	1	2	2	0	0	2	2	1	0	3	0	6	0	6	13
08:45 AM	0	1	0	1	0	2	0	2	4	2	0	6	0	3	0	3	12
Total	0	6	1	7	3	3	0	6	7	6	3	16	2	14	7	23	52
Grand Total	1	11	4	16	4	10	2	16	10	15	7	32	6	21	7	34	98
Apprch %	6.2	68.8	25		25	62.5	12.5		31.2	46.9	21.9		17.6	61.8	20.6		
Total %	1	11.2	4.1	16.3	4.1	10.2	2	16.3	10.2	15.3	7.1	32.7	6.1	21.4	7.1	34.7	

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	1	**2**	**3**	0	**3**	0	**3**	**1**	0	1	2	0	2	0	2	10
07:45 AM	0	**2**	1	3	**1**	2	0	3	1	1	0	2	**2**	2	0	4	12
08:00 AM	0	2	0	2	1	0	0	1	0	1	0	1	1	**3**	**4**	**8**	12
08:15 AM	0	2	0	2	0	1	0	1	1	**2**	**3**	**6**	1	2	3	6	**15**
Total Volume	0	7	3	10	2	6	0	8	3	4	4	11	4	9	7	20	49
% App. Total	0	70	30		25	75	0		27.3	36.4	36.4		20	45	35		
PHF	.000	.875	.375	.833	.500	.500	.000	.667	.750	.500	.333	.458	.500	.750	.438	.625	.817

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File Name : 08_UPL_Ben_Foot AM
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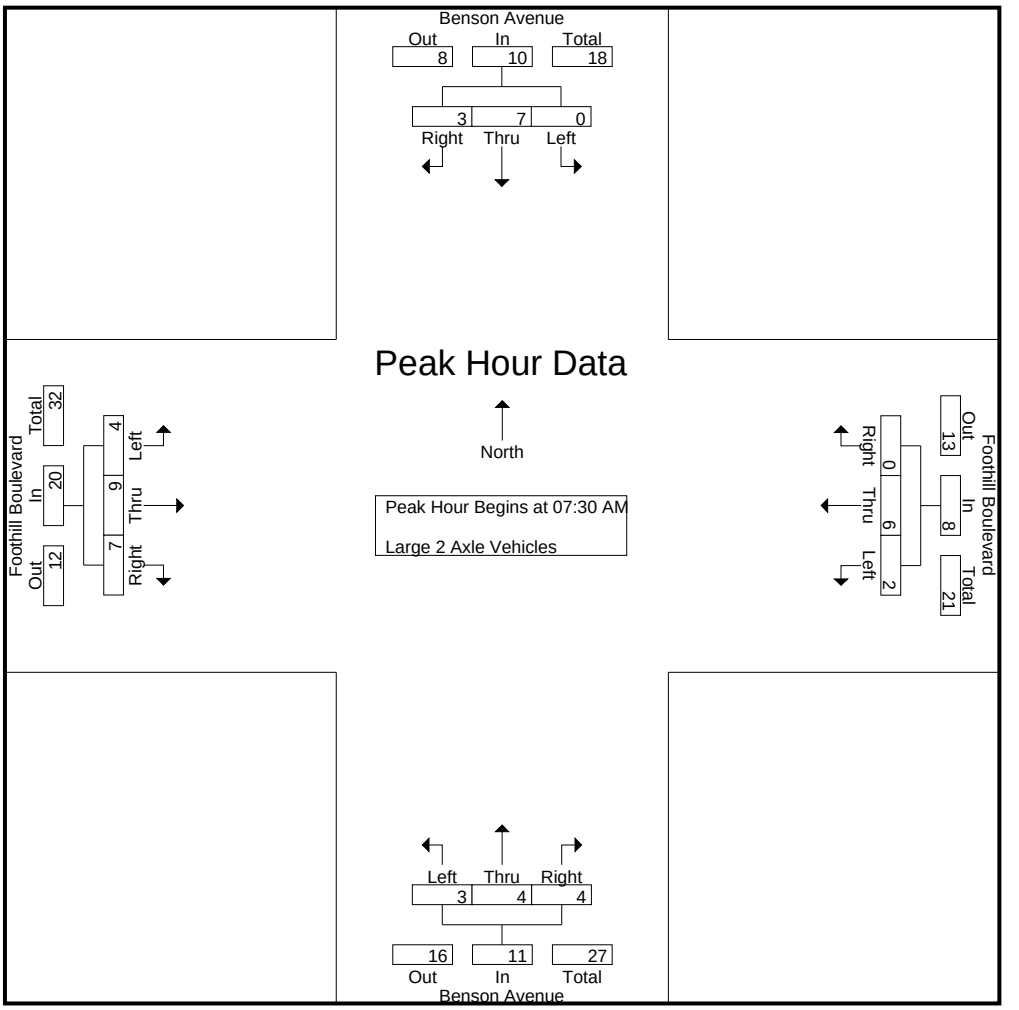

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	0	1	**2**	**3**	0	**3**	0	**3**	**1**	0	1	2	0	2	0	2
+15 mins.	0	**2**	1	3	**1**	2	0	3	1	1	0	2	**2**	2	0	4
+30 mins.	0	2	0	2	1	0	0	1	0	1	0	1	1	**3**	**4**	**8**
+45 mins.	0	2	0	2	0	1	0	1	1	**2**	**3**	**6**	1	2	3	6
Total Volume	0	7	3	10	2	6	0	8	3	4	4	11	4	9	7	20
% App. Total	0	70	30		25	75	0		27.3	36.4	36.4		20	45	35	
PHF	.000	.875	.375	.833	.500	.500	.000	.667	.750	.500	.333	.458	.500	.750	.438	.625

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Groups Printed- 3 Axle Vehicles

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	1	0	1	0	1	1	2	0	0	0	0	1	0	0	1	4
07:15 AM	0	0	0	0	0	2	1	3	0	0	0	0	0	3	0	3	6
07:30 AM	1	0	1	2	0	1	0	1	0	0	0	0	0	2	0	2	5
07:45 AM	1	0	1	2	0	0	1	1	0	0	0	0	0	0	0	0	3
Total	2	1	2	5	0	4	3	7	0	0	0	0	1	5	0	6	18
08:00 AM	1	1	0	2	0	0	0	0	0	0	0	0	0	3	0	3	5
08:15 AM	1	0	0	1	0	2	0	2	0	0	0	0	0	1	0	1	4
08:30 AM	0	0	0	0	0	1	1	2	0	0	1	1	0	0	0	0	3
08:45 AM	0	0	0	0	0	2	1	3	0	0	0	0	0	2	0	2	5
Total	2	1	0	3	0	5	2	7	0	0	1	1	0	6	0	6	17
Grand Total	4	2	2	8	0	9	5	14	0	0	1	1	1	11	0	12	35
Apprch %	50	25	25		0	64.3	35.7		0	0	100		8.3	91.7	0		
Total %	11.4	5.7	5.7	22.9	0	25.7	14.3	40	0	0	2.9	2.9	2.9	31.4	0	34.3	

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**1**	0	**1**	**2**	0	1	0	1	0	0	0	0	0	2	0	2	**5**
07:45 AM	1	0	1	2	0	0	**1**	1	0	0	0	0	0	0	0	0	3
08:00 AM	1	**1**	0	2	0	0	0	0	0	0	0	0	0	**3**	0	**3**	5
08:15 AM	1	0	0	1	0	**2**	0	**2**	0	0	0	0	0	1	0	1	4
Total Volume	4	1	2	7	0	3	1	4	0	0	0	0	0	6	0	6	17
% App. Total	57.1	14.3	28.6		0	75	25		0	0	0		0	100	0		
PHF	1.00	.250	.500	.875	.000	.375	.250	.500	.000	.000	.000	.000	.000	.500	.000	.500	.850

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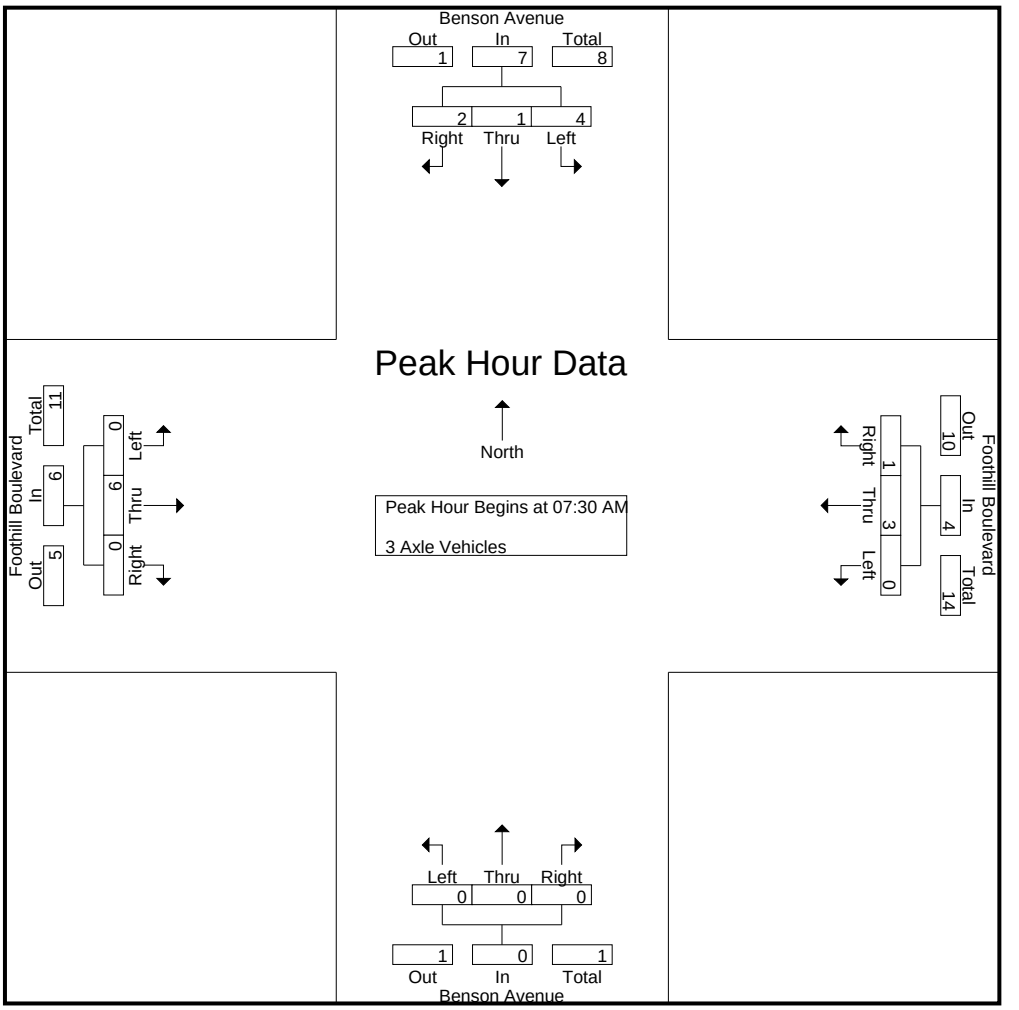

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**1**	0	**1**	**2**	0	1	0	1	0	0	0	0	0	2	0	2
+15 mins.	1	0	1	2	0	0	**1**	1	0	0	0	0	0	0	0	0
+30 mins.	1	**1**	0	2	0	0	0	0	0	0	0	0	0	**3**	0	**3**
+45 mins.	1	0	0	1	0	**2**	0	**2**	0	0	0	0	0	1	0	1
Total Volume	4	1	2	7	0	3	1	4	0	0	0	0	0	6	0	6
% App. Total	57.1	14.3	28.6		0	75	25		0	0	0		0	100	0	
PHF	1.000	.250	.500	.875	.000	.375	.250	.500	.000	.000	.000	.000	.000	.500	.000	.500

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Groups Printed- 4+ Axle Trucks

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	2
07:15 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2
07:30 AM	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	2	2	0	0	1	1	0	2	0	2	5
Total	1	0	1	2	0	3	2	5	1	0	1	2	0	2	0	2	11
08:00 AM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	2	0	2	3
08:30 AM	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2
08:45 AM	0	0	0	0	1	0	0	1	0	0	1	1	0	2	0	2	4
Total	0	1	0	1	1	3	0	4	0	0	1	1	0	4	0	4	10
Grand Total	1	1	1	3	1	6	2	9	1	0	2	3	0	6	0	6	21
Apprch %	33.3	33.3	33.3		11.1	66.7	22.2		33.3	0	66.7		0	100	0		
Total %	4.8	4.8	4.8	14.3	4.8	28.6	9.5	42.9	4.8	0	9.5	14.3	0	28.6	0	28.6	

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**1**	0	**1**	**2**	0	0	0	0	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	**2**	**2**	0	0	**1**	**1**	0	**2**	0	**2**	**5**
08:00 AM	0	**1**	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
08:15 AM	0	0	0	0	0	**1**	0	1	0	0	0	0	0	2	0	2	3
Total Volume	1	1	1	3	0	1	2	3	0	0	1	1	0	4	0	4	11
% App. Total	33.3	33.3	33.3		0	33.3	66.7		0	0	100		0	100	0		
PHF	.250	.250	.250	.375	.000	.250	.250	.375	.000	.000	.250	.250	.000	.500	.000	.500	.550

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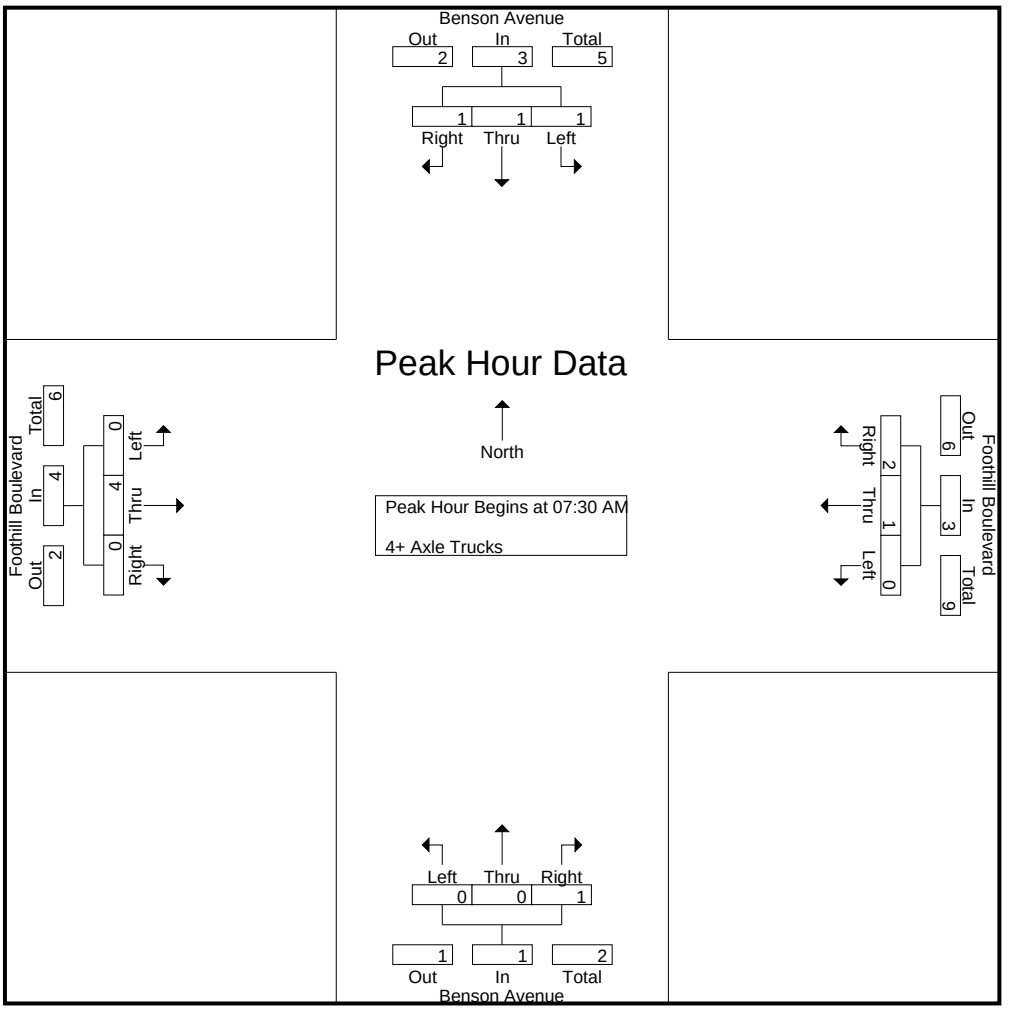

Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:30 AM				07:30 AM				07:30 AM				07:30 AM			
+0 mins.	**1**	0	**1**	**2**	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	**2**	**2**	0	0	**1**	**1**	0	**2**	0	**2**
+30 mins.	0	**1**	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	**1**	0	1	0	0	0	0	0	2	0	2
Total Volume	1	1	1	3	0	1	2	3	0	0	1	1	0	4	0	4
% App. Total	33.3	33.3	33.3		0	33.3	66.7		0	0	100		0	100	0	
PHF	.250	.250	.250	.375	.000	.250	.250	.375	.000	.000	.250	.250	.000	.500	.000	.500

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	33	90	34	157	27	147	26	200	19	104	33	156	70	235	37	342	855
04:15 PM	40	100	25	165	28	148	35	211	25	84	39	148	59	233	24	316	840
04:30 PM	33	90	37	160	28	162	23	213	22	111	31	164	65	218	29	312	849
04:45 PM	37	108	43	188	24	127	32	183	13	105	34	152	75	225	27	327	850
Total	143	388	139	670	107	584	116	807	79	404	137	620	269	911	117	1297	3394
05:00 PM	37	94	35	166	36	155	34	225	29	111	34	174	74	245	20	339	904
05:15 PM	35	108	35	178	30	137	28	195	21	96	35	152	70	291	31	392	917
05:30 PM	29	108	30	167	36	129	29	194	15	95	41	151	55	217	30	302	814
05:45 PM	38	126	33	197	25	147	24	196	29	96	37	162	58	217	19	294	849
Total	139	436	133	708	127	568	115	810	94	398	147	639	257	970	100	1327	3484
Grand Total	282	824	272	1378	234	1152	231	1617	173	802	284	1259	526	1881	217	2624	6878
Apprch %	20.5	59.8	19.7		14.5	71.2	14.3		13.7	63.7	22.6		20	71.7	8.3		
Total %	4.1	12	4	20	3.4	16.7	3.4	23.5	2.5	11.7	4.1	18.3	7.6	27.3	3.2	38.2	
Passenger Vehicles	276	808	270	1354	229	1139	227	1595	171	797	282	1250	520	1864	213	2597	6796
% Passenger Vehicles	97.9	98.1	99.3	98.3	97.9	98.9	98.3	98.6	98.8	99.4	99.3	99.3	98.9	99.1	98.2	99	98.8
Large 2 Axle Vehicles	3	14	1	18	4	13	3	20	1	3	0	4	6	15	4	25	67
% Large 2 Axle Vehicles	1.1	1.7	0.4	1.3	1.7	1.1	1.3	1.2	0.6	0.4	0	0.3	1.1	0.8	1.8	1	1
3 Axle Vehicles	2	1	1	4	1	0	1	2	0	0	2	2	0	1	0	1	9
% 3 Axle Vehicles	0.7	0.1	0.4	0.3	0.4	0	0.4	0.1	0	0	0.7	0.2	0	0.1	0	0	0.1
4+ Axle Trucks	1	1	0	2	0	0	0	0	1	2	0	3	0	1	0	1	6
% 4+ Axle Trucks	0.4	0.1	0	0.1	0	0	0	0	0.6	0.2	0	0.2	0	0.1	0	0	0.1

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	33	90	37	160	28	**162**	23	213	22	**111**	31	164	65	218	29	312	849
04:45 PM	**37**	**108**	**43**	**188**	24	127	32	183	13	105	34	152	**75**	225	27	327	850
05:00 PM	37	94	35	166	**36**	155	**34**	**225**	**29**	111	34	**174**	74	245	20	339	904
05:15 PM	35	108	35	178	30	137	28	195	21	96	**35**	152	70	**291**	**31**	**392**	**917**
Total Volume	142	400	150	692	118	581	117	816	85	423	134	642	284	979	107	1370	3520
% App. Total	20.5	57.8	21.7		14.5	71.2	14.3		13.2	65.9	20.9		20.7	71.5	7.8		
PHF	.959	.926	.872	.920	.819	.897	.860	.907	.733	.953	.957	.922	.947	.841	.863	.874	.960

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City of Upland
N/S: Benson Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 08_UPL_Ben_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
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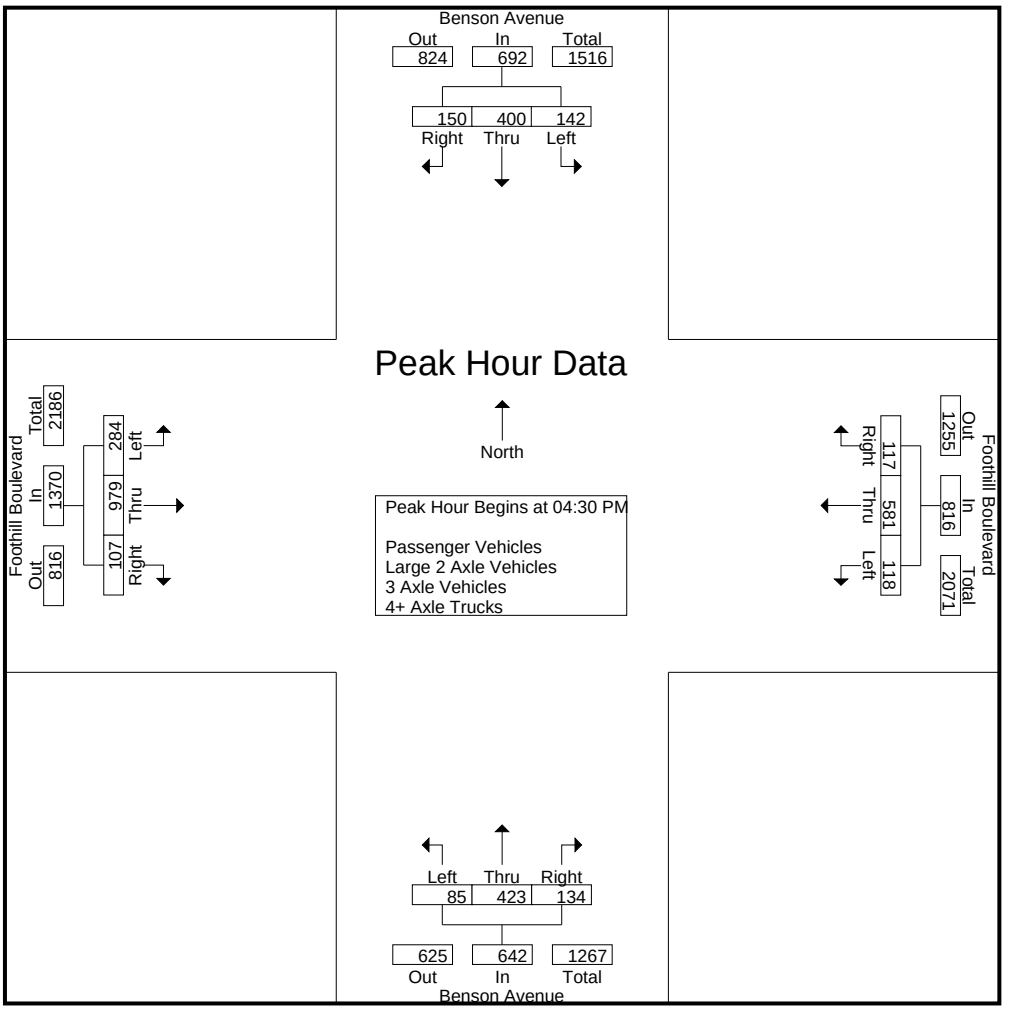

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	05:00 PM				04:15 PM				04:30 PM				04:30 PM			
+0 mins.	37	94	**35**	166	28	148	**35**	211	22	**111**	31	164	65	218	29	312
+15 mins.	35	108	35	178	28	**162**	23	213	13	105	34	152	**75**	225	27	327
+30 mins.	29	108	30	167	24	127	32	183	**29**	111	34	**174**	74	245	20	339
+45 mins.	**38**	**126**	33	**197**	**36**	155	34	**225**	21	96	**35**	152	70	**291**	**31**	**392**
Total Volume	139	436	133	708	116	592	124	832	85	423	134	642	284	979	107	1370
% App. Total	19.6	61.6	18.8		13.9	71.2	14.9		13.2	65.9	20.9		20.7	71.5	7.8	
PHF	.914	.865	.950	.898	.806	.914	.886	.924	.733	.953	.957	.922	.947	.841	.863	.874

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Groups Printed- Passenger Vehicles

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	32	90	33	155	25	146	26	197	18	104	31	153	70	230	36	336	841
04:15 PM	38	99	25	162	27	144	34	205	25	84	39	148	59	232	21	312	827
04:30 PM	33	85	36	154	27	161	22	210	22	110	31	163	64	215	29	308	835
04:45 PM	36	104	43	183	23	127	31	181	13	105	34	152	72	224	27	323	839
Total	139	378	137	654	102	578	113	793	78	403	135	616	265	901	113	1279	3342
05:00 PM	37	93	35	165	36	153	33	222	29	111	34	174	74	243	20	337	898
05:15 PM	34	108	35	177	30	137	28	195	21	93	35	149	70	288	31	389	910
05:30 PM	29	107	30	166	36	124	29	189	14	95	41	150	54	217	30	301	806
05:45 PM	37	122	33	192	25	147	24	196	29	95	37	161	57	215	19	291	840
Total	137	430	133	700	127	561	114	802	93	394	147	634	255	963	100	1318	3454
Grand Total	276	808	270	1354	229	1139	227	1595	171	797	282	1250	520	1864	213	2597	6796
Apprch %	20.4	59.7	19.9		14.4	71.4	14.2		13.7	63.8	22.6		20	71.8	8.2		
Total %	4.1	11.9	4	19.9	3.4	16.8	3.3	23.5	2.5	11.7	4.1	18.4	7.7	27.4	3.1	38.2	

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	33	85	36	154	27	**161**	22	210	22	110	31	163	64	215	29	308	835
04:45 PM	36	104	**43**	**183**	23	127	31	181	13	105	34	152	72	224	27	323	839
05:00 PM	**37**	93	35	165	**36**	153	**33**	**222**	**29**	**111**	34	**174**	**74**	243	20	337	898
05:15 PM	34	**108**	35	177	30	137	28	195	21	93	**35**	149	70	**288**	**31**	**389**	**910**
Total Volume	140	390	149	679	116	578	114	808	85	419	134	638	280	970	107	1357	3482
% App. Total	20.6	57.4	21.9		14.4	71.5	14.1		13.3	65.7	21		20.6	71.5	7.9		
PHF	.946	.903	.866	.928	.806	.898	.864	.910	.733	.944	.957	.917	.946	.842	.863	.872	.957

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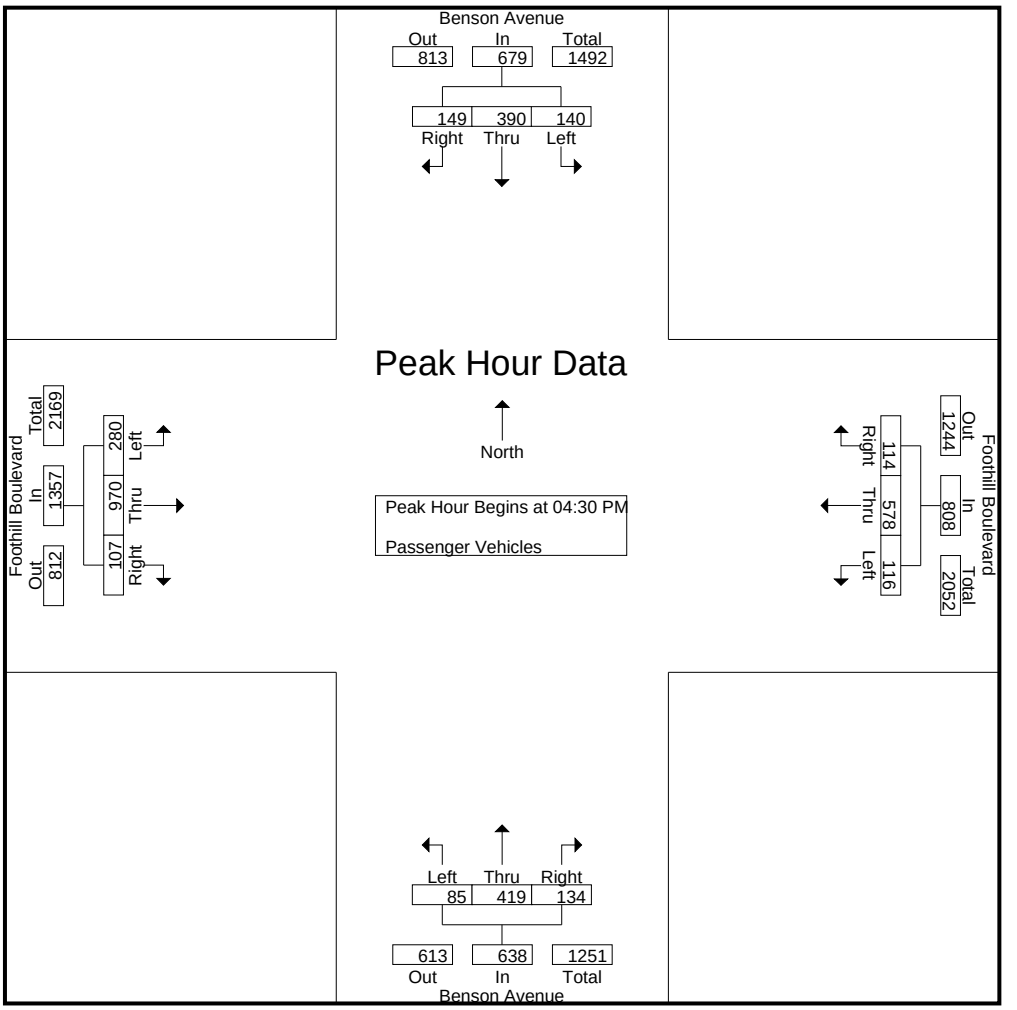

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	33	85	36	154	27	**161**	22	210	22	110	31	163	64	215	29	308
+15 mins.	36	104	**43**	**183**	23	127	31	181	13	105	34	152	72	224	27	323
+30 mins.	**37**	93	35	165	**36**	153	**33**	**222**	**29**	**111**	34	**174**	**74**	243	20	337
+45 mins.	34	**108**	35	177	30	137	28	195	21	93	**35**	149	70	**288**	**31**	**389**
Total Volume	140	390	149	679	116	578	114	808	85	419	134	638	280	970	107	1357
% App. Total	20.6	57.4	21.9		14.4	71.5	14.1		13.3	65.7	21		20.6	71.5	7.9	
PHF	.946	.903	.866	.928	.806	.898	.864	.910	.733	.944	.957	.917	.946	.842	.863	.872

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Groups Printed- Large 2 Axle Vehicles

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	1	0	1	2	1	1	0	2	0	0	0	0	0	3	1	4	8
04:15 PM	0	1	0	1	1	4	1	6	0	0	0	0	0	1	3	4	11
04:30 PM	0	4	0	4	1	1	0	2	0	1	0	1	1	3	0	4	11
04:45 PM	0	3	0	3	1	0	1	2	0	0	0	0	3	1	0	4	9
Total	1	8	1	10	4	6	2	12	0	1	0	1	4	8	4	16	39
05:00 PM	0	1	0	1	0	2	1	3	0	0	0	0	0	2	0	2	6
05:15 PM	1	0	0	1	0	0	0	0	0	1	0	1	0	3	0	3	5
05:30 PM	0	1	0	1	0	5	0	5	1	0	0	1	1	0	0	1	8
05:45 PM	1	4	0	5	0	0	0	0	0	1	0	1	1	2	0	3	9
Total	2	6	0	8	0	7	1	8	1	2	0	3	2	7	0	9	28
Grand Total	3	14	1	18	4	13	3	20	1	3	0	4	6	15	4	25	67
Apprch %	16.7	77.8	5.6		20	65	15		25	75	0		24	60	16		
Total %	4.5	20.9	1.5	26.9	6	19.4	4.5	29.9	1.5	4.5	0	6	9	22.4	6	37.3	

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	**4**	0	**4**	**1**	1	0	2	0	**1**	0	**1**	1	**3**	0	**4**	**11**
04:45 PM	0	3	0	3	1	0	**1**	2	0	0	0	0	**3**	1	0	4	9
05:00 PM	0	1	0	1	0	**2**	1	**3**	0	0	0	0	0	2	0	2	6
05:15 PM	**1**	0	0	1	0	0	0	0	0	1	0	1	0	3	0	3	5
Total Volume	1	8	0	9	2	3	2	7	0	2	0	2	4	9	0	13	31
% App. Total	11.1	88.9	0		28.6	42.9	28.6		0	100	0		30.8	69.2	0		
PHF	.250	.500	.000	.563	.500	.375	.500	.583	.000	.500	.000	.500	.333	.750	.000	.813	.705

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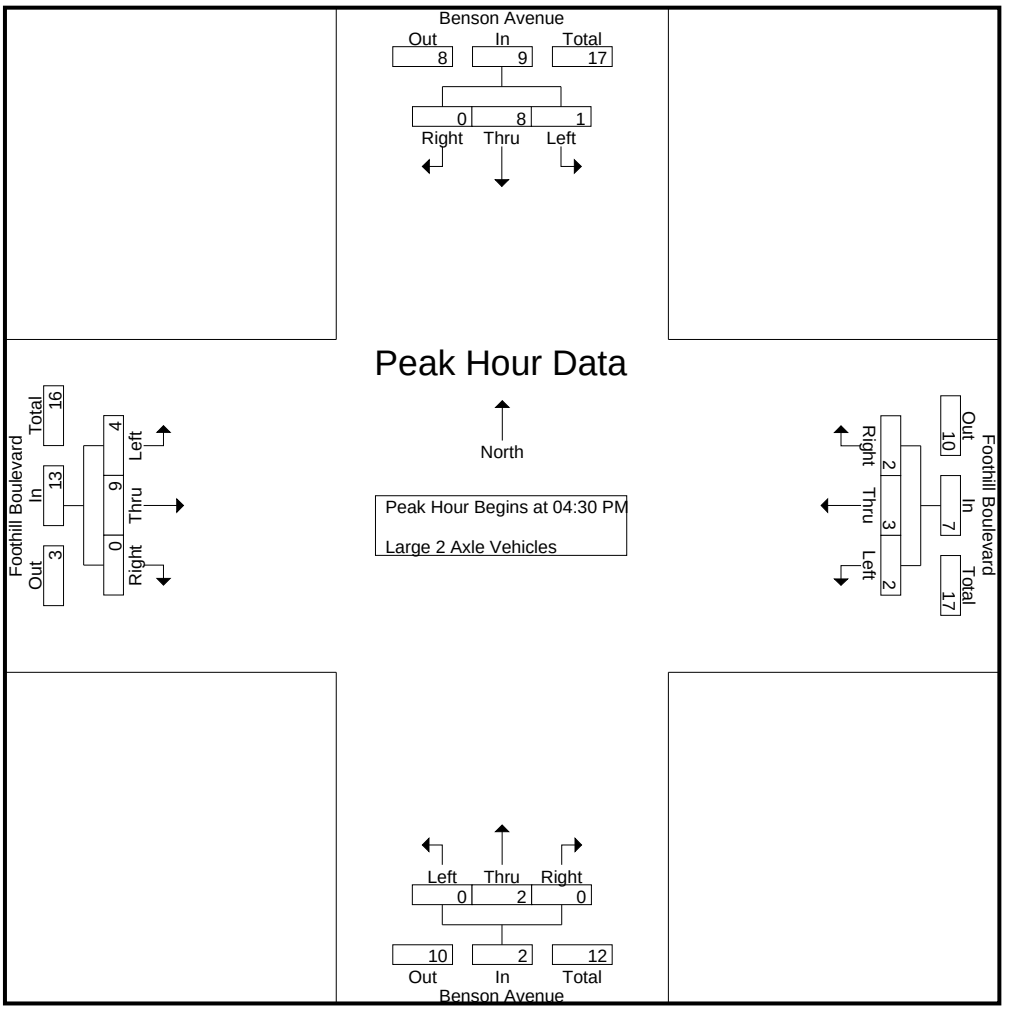

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	**4**	0	**4**	**1**	1	0	2	0	**1**	0	**1**	1	**3**	0	**4**
+15 mins.	0	3	0	3	1	0	**1**	2	0	0	0	0	**3**	1	0	4
+30 mins.	0	1	0	1	0	**2**	1	**3**	0	0	0	0	0	2	0	2
+45 mins.	**1**	0	0	1	0	0	0	0	0	1	0	1	0	3	0	3
Total Volume	1	8	0	9	2	3	2	7	0	2	0	2	4	9	0	13
% App. Total	11.1	88.9	0		28.6	42.9	28.6		0	100	0		30.8	69.2	0	
PHF	.250	.500	.000	.563	.500	.375	.500	.583	.000	.500	.000	.500	.333	.750	.000	.813

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Groups Printed- 3 Axle Vehicles

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	1	0	0	1	0	0	2	2	0	1	0	1	4
04:15 PM	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
04:30 PM	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	2
04:45 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	2	1	1	4	1	0	1	2	0	0	2	2	0	1	0	1	9
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	2	1	1	4	1	0	1	2	0	0	2	2	0	1	0	1	9
Apprch %	50	25	25		50	0	50		0	0	100		0	100	0		
Total %	22.2	11.1	11.1	44.4	11.1	0	11.1	22.2	0	0	22.2	22.2	0	11.1	0	11.1	

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	0	**1**	**1**	0	0	**1**	**1**	0	0	0	0	0	0	0	0	**2**
04:45 PM	0	**1**	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	1	2	0	0	1	1	0	0	0	0	0	0	0	0	3
% App. Total	0	50	50		0	0	100		0	0	0		0	0	0		
PHF	.000	.250	.250	.500	.000	.000	.250	.250	.000	.000	.000	.000	.000	.000	.000	.000	.375

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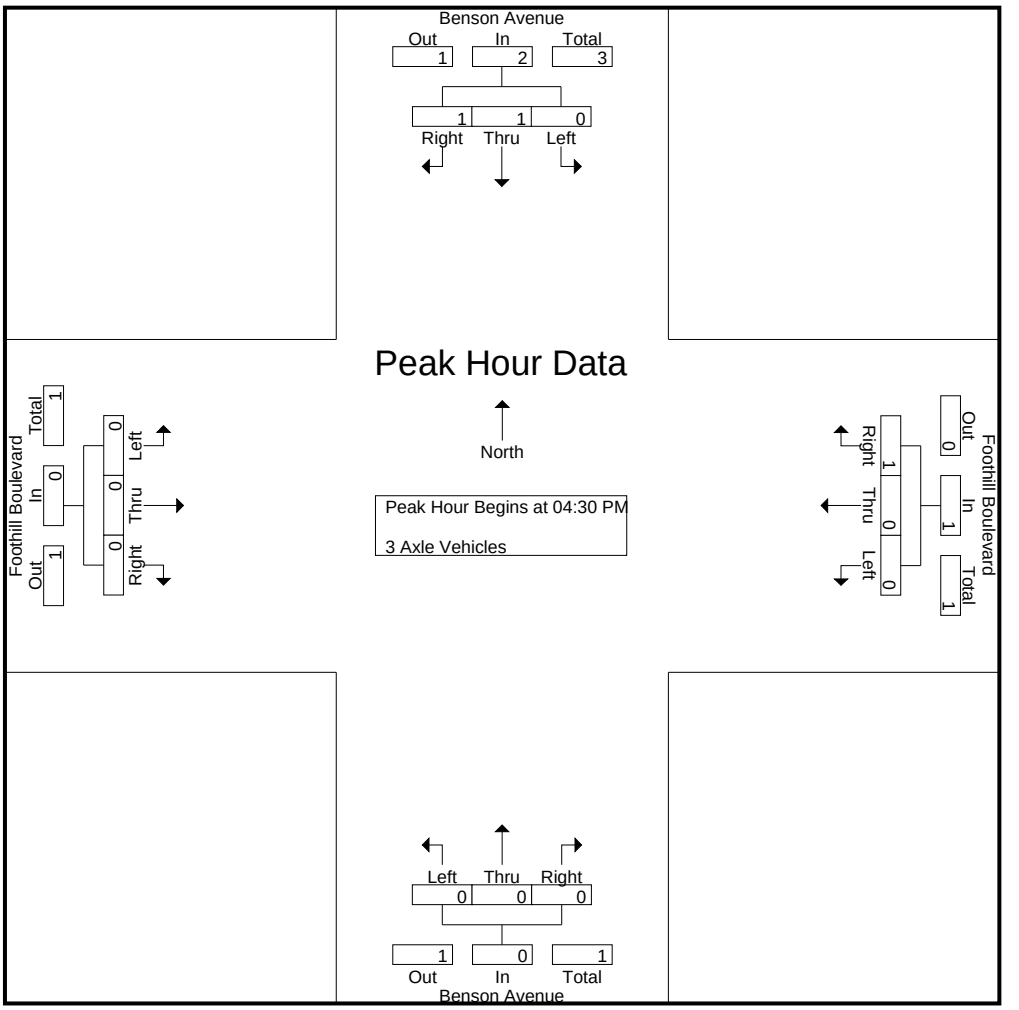

Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	0	**1**	**1**	0	0	**1**	**1**	0	0	0	0	0	0	0	0
+15 mins.	0	**1**	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	1	2	0	0	1	1	0	0	0	0	0	0	0	0
% App. Total	0	50	50		0	0	100		0	0	0		0	0	0	
PHF	.000	.250	.250	.500	.000	.000	.250	.250	.000	.000	.000	.000	.000	.000	.000	.000

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Groups Printed- 4+ Axle Trucks

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	1	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
04:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	1	1	0	2	0	0	0	0	1	0	0	1	0	1	0	1	4
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	2
Grand Total	1	1	0	2	0	0	0	0	1	2	0	3	0	1	0	1	6
Apprch %	50	50	0		0	0	0		33.3	66.7	0		0	100	0		
Total %	16.7	16.7	0	33.3	0	0	0	0	16.7	33.3	0	50	0	16.7	0	16.7	

	Benson Avenue Southbound				Foothill Boulevard Westbound				Benson Avenue Northbound				Foothill Boulevard Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0	1
04:45 PM	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	**2**	0	**2**	0	0	0	0	**2**
Total Volume	1	1	0	2	0	0	0	0	0	2	0	2	0	0	0	0	4
% App. Total	50	50	0		0	0	0		0	100	0		0	0	0		
PHF	.250	.250	.000	.500	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000	.500

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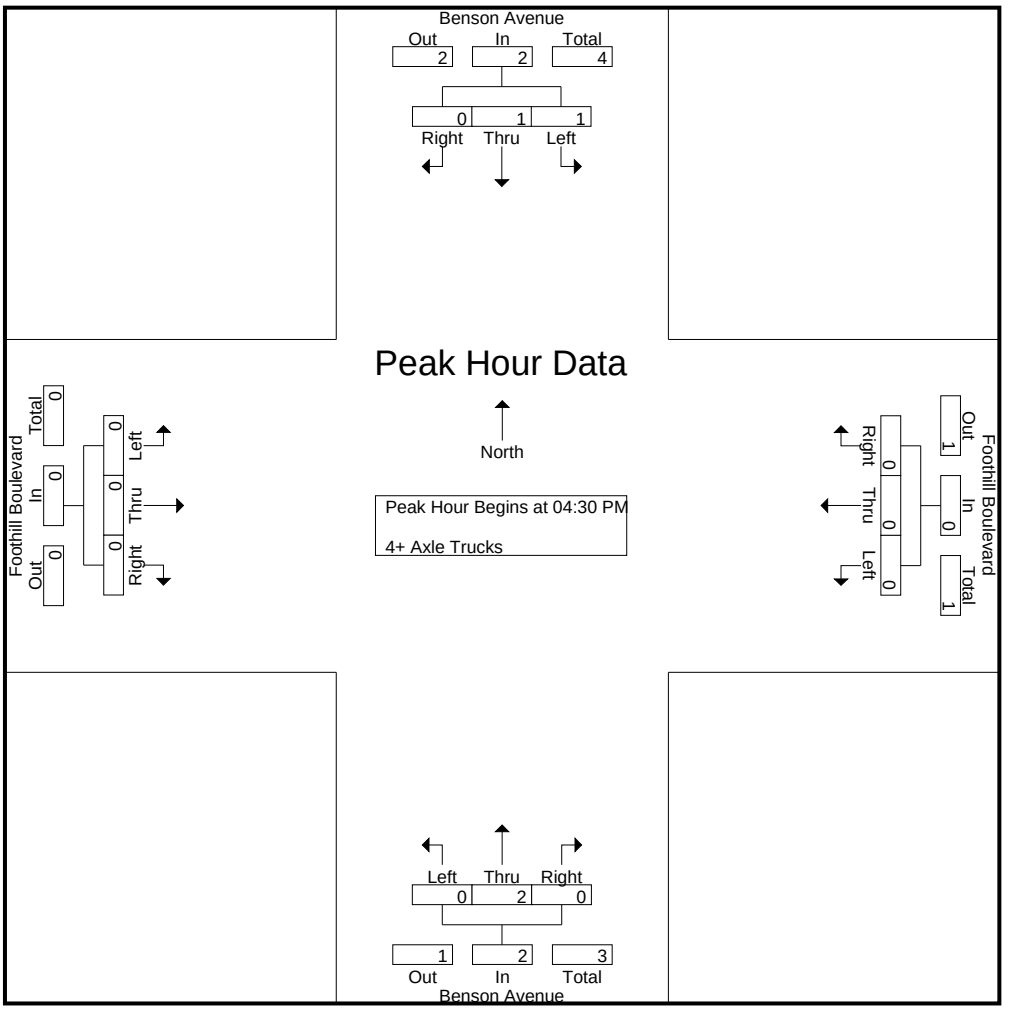
City of Upland
N/S: Benson Avenue
E/W: Foothill Boulevard
Weather: Clear

File Name : 08_UPL_Ben_Foot PM
Site Code : 00322974
Start Date : 10/26/2022
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:30 PM				04:30 PM				04:30 PM			
+0 mins.	0	**1**	0	**1**	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	**1**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	**2**	0	**2**	0	0	0	0
Total Volume	1	1	0	2	0	0	0	0	0	2	0	2	0	0	0	0
% App. Total	50	50	0		0	0	0		0	100	0		0	0	0	
PHF	.250	.250	.000	.500	.000	.000	.000	.000	.000	.250	.000	.250	.000	.000	.000	.000

Location: Upland
N/S: Benson Avenue
E/W: Foothill Boulevard

Date: 10/26/2022
Day: Wednesday

PEDESTRIANS

	North Leg Benson Avenue Pedestrians	East Leg Foothill Boulevard Pedestrians	South Leg Benson Avenue Pedestrians	West Leg Foothill Boulevard Pedestrians	
7:00 AM	1	0	1	1	3
7:15 AM	0	0	2	0	2
7:30 AM	0	1	0	0	1
7:45 AM	0	0	0	1	1
8:00 AM	0	1	0	0	1
8:15 AM	1	2	1	0	4
8:30 AM	1	1	2	1	5
8:45 AM	1	0	0	0	1
TOTAL VOLUMES:	4	5	6	3	18

	North Leg Benson Avenue Pedestrians	East Leg Foothill Boulevard Pedestrians	South Leg Benson Avenue Pedestrians	West Leg Foothill Boulevard Pedestrians	
4:00 PM	1	1	0	1	3
4:15 PM	1	0	1	2	4
4:30 PM	0	0	1	0	1
4:45 PM	0	0	0	0	0
5:00 PM	2	1	2	0	5
5:15 PM	0	0	2	0	2
5:30 PM	0	0	2	0	2
5:45 PM	0	0	2	0	2
TOTAL VOLUMES:	4	2	10	3	19

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Location: Upland
N/S: Benson Avenue
E/W: Foothill Boulevard

Date: 10/26/2022
Day: Wednesday

BICYCLES

	Southbound Benson Avenue			Westbound Foothill Boulevard			Northbound Benson Avenue			Eastbound Foothill Boulevard			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
7:15 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
8:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	1	0	1	0	0	0	0	0	0	0	2
TOTAL VOLUMES:	1	0	1	1	4	0	0	0	0	0	3	0	10

	Southbound Benson Avenue			Westbound Foothill Boulevard			Northbound Benson Avenue			Eastbound Foothill Boulevard			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
TOTAL VOLUMES:	0	0	0	0	1	0	0	2	0	0	0	0	3

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email: counts@countsunlimited.com

City of Upland
Foothill Boulevard
E/ Central Avenue
24 Hour Directional Volume Count

UPL002
Site Code: 003-22974

Start Time	10/26/22 Wed	Eastbound Morning	Eastbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Westbound Morning	Westbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		31	232			20	209				
12:15		16	241			22	232				
12:30		15	263			21	227				
12:45		17	193	79	929	15	198	78	866	157	1795
01:00		26	209			12	**226**				
01:15		5	230			10	**199**				
01:30		11	233			12	**237**				
01:45		11	244	53	916	8	**233**	42	895	95	1811
02:00		16	255			7	187				
02:15		7	232			10	211				
02:30		7	245			6	215				
02:45		9	253	39	985	5	176	28	789	67	1774
03:00		8	272			2	197				
03:15		10	264			9	207				
03:30		10	290			12	206				
03:45		4	298	32	1124	13	217	36	827	68	1951
04:00		9	364			12	197				
04:15		9	329			20	186				
04:30		6	**316**			24	214				
04:45		16	**340**	40	1349	35	190	91	787	131	2136
05:00		25	**349**			23	176				
05:15		16	**389**			43	185				
05:30		21	306			44	203				
05:45		37	304	99	1348	70	193	180	757	279	2105
06:00		21	283			67	176				
06:15		28	261			84	165				
06:30		51	248			89	177				
06:45		69	227	169	1019	153	159	393	677	562	1696
07:00		61	197			174	170				
07:15		99	153			178	112				
07:30		135	148			**201**	113				
07:45		157	157	452	655	**284**	113	837	508	1289	1163
08:00		169	165			**204**	116				
08:15		167	124			**210**	78				
08:30		136	115			190	90				
08:45		141	98	613	502	189	107	793	391	1406	893
09:00		162	94			150	75				
09:15		161	76			195	64				
09:30		159	92			148	74				
09:45		159	88	641	350	174	67	667	280	1308	630
10:00		138	77			183	56				
10:15		166	46			188	44				
10:30		170	63			185	47				
10:45		179	51	653	237	187	40	743	187	1396	424
11:00		**195**	56			189	35				
11:15		**173**	37			179	44				
11:30		**250**	21			204	29				
11:45		**206**	27	824	141	185	25	757	133	1581	274
Total		3694	9555	3694	9555	4645	7097	4645	7097	8339	16652
Combined Total		13249		13249		11742		11742		24991	
AM Peak	-	11:00	-	-	-	07:30	-	-	-	-	-
Vol.	-	824	-	-	-	899	-	-	-	-	-
P.H.F.		0.824				0.791					
PM Peak	-	-	04:30	-	-	-	01:00	-	-	-	-
Vol.	-	-	1394	-	-	-	895	-	-	-	-
P.H.F.			0.896				0.944				
Percentage		27.9%	72.1%			39.6%	60.4%				
ADT/AADT		ADT 24,991		AADT 24,991							

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City of Upland
Foothill Boulevard
W/ Benson Avenue
24 Hour Directional Volume Count

UPL003
Site Code: 003-22974

Start Time	10/26/22 Wed	Eastbound Morning	Eastbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Westbound Morning	Westbound Afternoon	Hour Totals Morning	Hour Totals Afternoon	Combined Totals Morning	Combined Totals Afternoon
12:00		27	205			19	192				
12:15		19	236			24	202				
12:30		15	256			22	205				
12:45		18	195	79	892	13	197	78	796	157	1688
01:00		28	191			8	**231**				
01:15		9	241			12	**201**				
01:30		9	213			18	**204**				
01:45		17	230	63	875	8	**227**	46	863	109	1738
02:00		10	238			7	197				
02:15		6	213			12	182				
02:30		9	247			5	197				
02:45		11	230	36	928	4	175	28	751	64	1679
03:00		7	275			1	193				
03:15		9	252			9	214				
03:30		9	290			13	189				
03:45		5	291	30	1108	18	207	41	803	71	1911
04:00		9	344			12	201				
04:15		11	316			22	198				
04:30		6	**312**			27	222				
04:45		15	**327**	41	1299	36	183	97	804	138	2103
05:00		27	**339**			22	219				
05:15		17	**392**			52	193				
05:30		20	302			46	174				
05:45		29	294	93	1327	79	209	199	795	292	2122
06:00		16	265			60	175				
06:15		35	269			84	166				
06:30		45	227			103	172				
06:45		65	215	161	976	150	176	397	689	558	1665
07:00		57	203			176	156				
07:15		81	159			193	125				
07:30		124	157			**209**	115				
07:45		131	164	393	683	**260**	109	838	505	1231	1188
08:00		167	174			**192**	112				
08:15		128	137			**202**	93				
08:30		135	117			195	82				
08:45		153	97	583	525	181	69	770	356	1353	881
09:00		125	84			148	63				
09:15		170	78			175	65				
09:30		165	68			146	78				
09:45		138	71	598	301	161	43	630	249	1228	550
10:00		135	65			183	48				
10:15		146	74			176	55				
10:30		177	56			207	41				
10:45		156	44	614	239	184	53	750	197	1364	436
11:00		**170**	42			177	18				
11:15		**175**	40			187	25				
11:30		**195**	29			201	27				
11:45		**200**	35	740	146	164	19	729	89	1469	235
Total		3431	9299	3431	9299	4603	6897	4603	6897	8034	16196
Combined Total		12730		12730		11500		11500		24230	
AM Peak	-	11:00	-	-	-	07:30	-	-	-	-	-
Vol.	-	740	-	-	-	863	-	-	-	-	-
P.H.F.		0.925				0.830					
PM Peak	-	-	04:30	-	-	-	01:00	-	-	-	-
Vol.	-	-	1370	-	-	-	863	-	-	-	-
P.H.F.			0.874				0.934				
Percentage		27.0%	73.0%			40.0%	60.0%				
ADT/AADT		ADT 24,230		AADT 24,230							

INTERSECTION: 64 Foothill / Central

QuicNet System Parameters

Group Assignment: **NONE**
Field Master Assignment: **NONE**
System Reference Number: **64**
Commications Channel: **Not Assigned**
Drop Address: **9**
Area Number: **1**
Area Address: **64**

N/S Street Name: **Central Ave**
E/W Street Name: **Foothill Blvd**

Last *QuicNet* Database Change: **1/28/2009 13:53**

This timing sheet is only valid after review and approval by the City Engineer/City Traffic Engineer for the City of Upland.

Initially Prepared By: Albert Grover & Assc/Greg Wong GCW **Date:** 2/2/09

Approved By: Anthony M. Lo **Date:** 3/11/09

Implemented By: Mike Oliver **Date:** 4-21-09

Notes:

Field Change Record					
Change	By	Date	Change	By	Date

Excl Ped Assignment	
Exclusive Walk	0
Exclusive FDW	0
All Red Clear	0.0

Note: Set the Exclusive Ped Outputs on the "Outputs / General" page

Walk Output	0
Don't Walk Output	0

Exclusive Ped Phase

	Phase							
	1	2	3	4	5	6	7	8
	WBL	EBT			EBL	WBT	SBT	NBT
Basic Phase Timing: Min Green	5	5	0	0	5	5	5	5
Extension	2.5	3.0	2.0	2.0	2.0	3.0	3.0	2.5
Max	30	45	40	40	15	45	25	30
Max 2	50	50	50	50	50	50	50	50
Cond Serve Check	0	0	0	0	0	0	0	0
Clear: Yellow Change	3.0	4.3	4.0	4.0	3.0	4.3	3.0	3.9
Red Clear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Pedestrian Timing: Walk	0	5	0	0	0	5	5	0
Ped Clear - FDW	0	15	0	0	0	8	22	0
Adv / Delay Walk	0	0	0	0	0	0	0	0
PE Min Ped FDW	0	0	0	0	0	0	0	0
Volume Density: Type 3 Disconnect	0	0	0	0	0	0	0	0
Added per Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Added Initial	0	0	0	0	0	0	0	0
Min Gap	2.5	3.0	2.0	2.0	2.0	3.0	3.0	2.5
Max Gap	2.5	3.0	2.0	2.0	2.0	3.0	3.0	2.5
Reduce Every	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Phase Timing - Bank 1

	Phase							
	1	2	3	4	5	6	7	8
Alternate Walk	0	0	0	0	0	0	0	0
Alternate Ped Clear	0	0	0	0	0	0	0	0
Alternate Minimum	0	0	0	0	0	0	0	0
Alternate Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternate Timing - Bank 1

Red Lock		Red Rest	
Yellow Lock		Dual Entry	
Simultaneous Gap		Sequential Timing	
Rest In Walk		Inhibit Ped Reservice	
Advance Walk		Semi-Actuated	
Flashing Walk		Guaranteed Passage	
Max Extension		Conditional Service	

Phase Functions - Page 1

Minimum Recall	2 56	Soft Recall	
Ped Recall		External Recall	
Maximum Recall		Manual Control Calls	
Green Flash		Fast Green Flash	
Overlap Green Flash		Fast Overlap G. Flash	

Phase Functions - Page 2

		Phase							
		1	2	3	4	5	6	7	8
Basic Phase Timing	Min Green	0	0	0	0	0	0	0	0
	Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max	0	0	0	0	0	0	0	0
	Max 2	0	0	0	0	0	0	0	0
	Cond Serve Check	0	0	0	0	0	0	0	0
Clear	Yellow Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Red Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Timing	Walk	0	0	0	0	0	0	0	0
	Ped Clear - FDW	0	0	0	0	0	0	0	0
	Adv / Delay Walk	0	0	0	0	0	0	0	0
	PE Min Ped FDW	0	0	0	0	0	0	0	0
Volume Density	Type 3 Disconnect	0	0	0	0	0	0	0	0
	Added per Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max Added Initial	0	0	0	0	0	0	0	0
	Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Reduce Every	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Phase Timing - Bank 2

		Phase							
		1	2	3	4	5	6	7	8
Basic Phase Timing	Min Green	0	0	0	0	0	0	0	0
	Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max	0	0	0	0	0	0	0	0
	Max 2	0	0	0	0	0	0	0	0
	Cond Serve Check	0	0	0	0	0	0	0	0
Clear	Yellow Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Red Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Timing	Walk	0	0	0	0	0	0	0	0
	Ped Clear - FDW	0	0	0	0	0	0	0	0
	Adv / Delay Walk	0	0	0	0	0	0	0	0
	PE Min Ped FDW	0	0	0	0	0	0	0	0
Volume Density	Type 3 Disconnect	0	0	0	0	0	0	0	0
	Added per Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max Added Initial	0	0	0	0	0	0	0	0
	Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Reduce Every	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Phase Timing - Bank 3

	Phase							
	1	2	3	4	5	6	7	8
Alternate Walk	0	0	0	0	0	0	0	0
Alternate Ped Clear	0	0	0	0	0	0	0	0
Alternate Minimum	0	0	0	0	0	0	0	0
Alternate Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternate Timing - Bank 2

	Phase							
	1	2	3	4	5	6	7	8
Alternate Walk	0	0	0	0	0	0	0	0
Alternate Ped Clear	0	0	0	0	0	0	0	0
Alternate Minimum	0	0	0	0	0	0	0	0
Alternate Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternate Timing - Bank 3

Clear Phases	
Delay	0
Clear Time	0

Railroad - 1

Clear Phases	
Limited Service Phases	
Delay	0
Clear Time	0

Railroad - 2

Railroad Preempt Parameters

	Delay	Clear	Clear Phases
EV - A	0	0	
EV - B	0	0	
EV - C	0	0	
EV - D	0	0	

Emergency Vehicle Preempt

SE - 1	
SE - 2	
EV - A	
EV - B	
EV - C	
EV - D	

Preempt Priority

Note: Set the Limited Service Interval on the "Utilities / Misc" page

Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Special Event Sequence - 1

Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Special Event Sequence - 2

Transition Type	0.3
Coord Extra Functions	
Phase 1 - Minimum	10
Phase 2 - Minimum	10
Phase 3 - Minimum	10
Phase 4 - Minimum	10
Phase 5 - Minimum	10
Phase 6 - Minimum	10
Phase 7 - Minimum	10
Phase 8 - Minimum	10

Coordination - General

Note: The Ring-Barrier Sum of these Minimums will be the Minimum Cycle Length During Transition

Coord Extra
1 = Programmed Walk Time for Sync Phases
2 = Always Terminate Sync Phase Peds
3 = Use "Floating Force Off"
4 =
5 = Use "Start of Green" for Sync Point

Transition Type
0.X = Shortway
1.X = Lengthen Only
2.X = Shorten Only
X.1 thru X.4 = Number of Cycles to get "In Step"

	Coordination Plan								
	1	2	3	4	5	6	7	8	9
Cycle	100	110	110	0	0	0	0	0	0
Offset - 1	57	73	19	0	0	0	0	0	0
Offset - 2	0	0	0	0	0	0	0	0	0
Offset - 3	0	0	0	0	0	0	0	0	0
Zone Offset	0	0	0	0	0	0	0	0	0
Ring Offset	0	0	0	0	0	0	0	0	0
Hold Release	255	255	255	0	0	0	0	0	0
Ped Adjust	0	0	0	0	0	0	0	0	0
Force Off - 1	21	88	75	0	0	0	0	0	0
Force Off - 2	0	12	0	0	0	0	0	0	0
Force Off - 3	0	0	0	0	0	0	0	0	0
Force Off - 4	0	0	0	0	0	0	0	0	0
Force Off - 5	83	12	64	0	0	0	0	0	0
Force Off - 6	21	0	0	0	0	0	0	0	0
Force Off - 7	48	40	28	0	0	0	0	0	0
Force Off - 8	69	65	54	0	0	0	0	0	0

Coordination - Cycle, Offsets, & Force Offs

	Coordination Plan								
	1	2	3	4	5	6	7	8	9
Perm 1 - Begin	0	0	0	0	0	0	0	0	0
Perm 1 - End	7	1	1	0	0	0	0	0	0
Perm 1 - Veh Phases	1	5	12345678	12345678	12345678	12345678	12345678	12345678	12345678
Perm 1 - Ped Phases			12345678	12345678	12345678	12345678	12345678	12345678	12345678
Perm 2 - Begin	21	12	0	0	0	0	0	0	0
Perm 2 - End	22	13	0	0	0	0	0	0	0
Perm 2 - Veh Phases	78	78							
Perm 2 - Ped Phases	7	7							
Perm 3 - Begin	21	12	0	0	0	0	0	0	0
Perm 3 - End	71	76	0	0	0	0	0	0	0
Perm 3 - Veh Phases	5	1							
Perm 3 - Ped Phases	2 6	2 6							
Max Inhibit Phases	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678
Max Recall Phases									
Sync Phases	2 6	2 6	2 6	2 6	2 6	2 6	2 6	2 6	2 6
Lag Phases	1 4 6 8	2 45 8	2 4 6 8	2 4 6 8	2 4 6 8	2 4 6 8	2 4 6 8	2 4 6 8	2 4 6 8
Pre-Timed Phases									

Coordination - Permissives & Phase Sequence

	Overlap Number							
	1	2	3	4	5	6	7	8
Load Switch Number	0	0	0	0	0	0	0	0
Vehicle Set 1								
Vehicle Set 2								
Vehicle Set 3								
Negative Vehicle								
Negative Ped								
Green Omit								
Green Clear Omit								
Green Clearance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Clearance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Overlaps

	AND 1	AND 2	AND 3	AND 4
Input - A	0	0	0	0
Input - B	0	0	0	0
Output	0	0	0	0

AND Gates

	NAND 1	NAND 2	NAND 3	NAND 4
Input - A	0	0	0	0
Input - B	0	0	0	0
Output	0	0	0	0

NAND Gates

	OR 1	OR 2	OR 3	OR 4	OR 5	OR 6
Input - A	0	0	0	0	0	0
Input - B	0	0	0	0	0	0
Output	0	0	0	0	0	0

2 Input - OR Gates

	OR 7	OR 8
Input - A	0	0
Input - B	0	0
Input - C	0	0
Input - D	0	0
Output	0	0

4 Input - OR Gates

	NOT 1	NOT 2	NOT 3	NOT 4
Input	0	0	0	0
Output	0	0	0	0

NOT Gates (Inverters)

	DELAY 1	DELAY 2	DELAY 3	DELAY 4	DELAY 5	DELAY 6
Input	0	0	0	0	0	0
Delay Time	0	0	0	0	0	0
Output	0	0	0	0	0	0

DELAY Gates

Latch:	1	2	3	4	5	6	7	8
Set	0	0	0	0	0	0	0	0
Reset	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0
/Out	0	0	0	0	0	0	0	0

Logic Latches

Det. #	C-1 Pin #	Delay	Carry-over	Phase Assignmrnts	Detector Attributes	Detector Set Assignments
1	39	0.0	0.0	_2_____	___45_7_	123____8
2	40	0.0	0.0	_____6__	___45_7_	123____8
3	41	0.0	0.0	___4____	___45_7_	123____8
4	42	0.0	0.0	_______8	___45_7_	123____8
5	43	0.0	0.0	_2_____	___45_7_	123____8
6	44	0.0	0.0	_____6__	___45_7_	123____8
7	45	0.0	0.0	___4____	___45_7_	123____8
8	46	0.0	0.0	_______8	___45_7_	123____8
9	47	0.0	0.0	_2_____	_____67_	123____8
10	48	0.0	0.0	_____6__	_____67_	123____8
11	49	0.0	0.0	___4____	_____67_	123____8
12	50	0.0	0.0	_______8	_____67_	123____8
13	55	0.0	0.0	____5___	___45_7_	123____8
14	56	0.0	0.0	1_____	___45_7_	123____8
15	57	0.0	0.0	_____7_	___45_7_	123____8
16	58	0.0	0.0	__3____	___45_7_	123____8
17	59	0.0	0.0	____5___	___45_7_	123____8
18	60	0.0	0.0	1_____	___45_7_	123____8
19	61	0.0	0.0	_____7_	___45_7_	123____8
20	62	0.0	0.0	__3____	___45_7_	123____8
21	63	0.0	0.0	_2_____	___45_7_	123____8
22	64	0.0	0.0	_____6__	___45_7_	123____8
23	65	0.0	0.0	___4____	___45_7_	123____8
24	66	0.0	0.0	_______8	___45_7_	123____8
25	67	0.0	0.0	_2_____	_2_____	123____8
26	68	0.0	0.0	_____6__	_2_____	123____8
27	69	0.0	0.0	___4____	_2_____	123____8
28	70	0.0	0.0	_____7_	_2_____	123____8
29	76	0.0	0.0	_2_____	___45_7_	123____8
30	77	0.0	0.0	_____6__	___45_7_	123____8
31	78	0.0	0.0	___4____	___45_7_	123____8
32	79	0.0	0.0	_______8	___45_7_	123____8

Detector Assignments

Detector Attributes
1 = Full Time Delay
2 = Ped Call
3 =
4 = Count
5 = Extension
6 = Type 3
7 = Calling
8 = Alternate

Detector Assignments
1 = Detector Set 1
2 = Detector Set 2
3 = Detector Set 3
4 =
5 =
6 = Failure - Min Recall
7 = Failure - Max Recall
8 = Report on Failure

	C-1 Pin #
Flash Sense	81
External Permit - 1	0
External Permit - 2	0
Exclusive Ped Omit	0
Max. Term Inhibit	0
Max. 2	0
External Lag Phases	0
External Max. Recall	0
Stop Time	82
Manual Control Enable	0
Manual Cont. Advance	0
External Min. Recall	0

General Inputs

	C-1 Pin #
Plan 1	0
Plan 2	0
Plan 3	0
Plan 4	0
Plan 5	0
Plan 6	0
Plan 7	0
Plan 8	0
Plan 9	0
Free	0
Flash	0

Coordination Plan Inputs

	C-1 Pin #
Railroad - 1	0
Railroad - 2	0
Special Event - 1	0
Special Event - 2	0
Gate Down	0
EV - A	0
EV - B	0
EV - C	0
EV - D	0

Preempt Inputs

	C-1 Pin #
Phase Bank - 2	0
Phase Bank - 3	0
Detector Set - 2	0
Detector Set - 3	0
Overlap Vehicle Set - 2	0
Overlap Vehicle Set - 3	0

Bank & Set Inputs

	C-1 Pin #
Door Ajar	0
UPS Battery	0
UPS Power	0
Cabinet Temperature	0

Alarm Inputs

	C-1 Pin #
Alarm - 1	0
Alarm - 2	0
Alarm - 3	0
Alarm - 4	0

	C-1 Pin #
Advance Warning - 1	0
Advance Warning - 2	0
Detector Failure	0
Flasher - Alternating 1	0
Flasher - Alternating 2	0
Fast Flasher	0
On Line	0
Exclusive - Walk	0
Exclusive - Don't Walk	0

General Outputs

	C-1 Pin #
Output - 1	0
Output - 2	0
Output - 3	0
Output - 4	0
Output - 5	0
Output - 6	0
Output - 7	0
Output - 8	0

Time of Day Outputs

	C-1 Pin #
Plan - 1	0
Plan - 2	0
Plan - 3	0
Plan - 4	0
Plan - 5	0
Plan - 6	0
Plan - 7	0
Plan - 8	0
Plan - 9	0
Free	0
Flash	

Coordination Plan Out

	Ped Phase
Ped 2-P Loadswitch	2
Ped 4-P Loadswitch	
Ped 6-P Loadswitch	6
Ped 8-P Loadswitch	7

Ped Loadswitch Assignment

	C-1 Pin #
Dial - 2	0
Dial - 3	0
Offset - 1	0
Offset - 2	0
Offset - 3	0
Free	0
Flash	0

Seven Wire Outputs

	C-1 Pin #	
	On	Flash
Railroad - 1	0	0
Railroad - 2	0	0
Special Event - 1	0	0
Special Event - 2	0	0
Preempt Failure	0	0
EV - A	0	0
EV - B	0	0
EV - C	0	0
EV - D	0	0
Any Preempt	0	0

Preemption Outputs

	C-1 Pin #
Output - 1	0
Output - 2	0
Output - 3	0
Output - 4	0
Output - 5	0
Output - 6	0
Output - 7	0
Output - 8	0

Special Event Outputs

	C-1 Pin #
Output - 1	0
Output - 2	0
Output - 3	0
Output - 4	0
Output - 5	0
Output - 6	0
Output - 7	0
Output - 8	0

Special Function Output

	Phase Number							
	1	2	3	4	5	6	7	8
Red	0	0	0	0	0	0	0	0
Yellow	0	0	0	0	0	0	0	0
Green	0	0	0	0	0	0	0	0
Walk	0	0	0	0	0	0	0	0
Don't Walk	0	0	0	0	0	0	0	0

Phase Output Redirection

	Overlap Number							
	1	2	3	4	5	6	7	8
Red	0	0	0	0	0	0	0	0
Yellow	0	0	0	0	0	0	0	0
Green	0	0	0	0	0	0	0	0

Overlap Output Redirection

Event	Day of Week	Season	Hour	Minute	Plan	Offset
0	1234567		0	0	E	A
1	_23456_		6	0	1	A
2	_23456_		10	5	2	A
3	_23456_		14	40	3	A
4	_23456_		22	0	E	A
5	1____7		9	10	2	A
6	1____7		19	0	E	A
7	_____		0	0	0	0
8	_____		0	0	0	0
9	_____		0	0	0	0
10	_____		0	0	0	0
11	_____		0	0	0	0
12	_____		0	0	0	0
13	_____		0	0	0	0
14	_____		0	0	0	0
15	_____		0	0	0	0
16	_____		0	0	0	0
17	_____		0	0	0	0
18	_____		0	0	0	0
19	_____		0	0	0	0
20	_____		0	0	0	0
21	_____		0	0	0	0
22	_____		0	0	0	0
23	_____		0	0	0	0
24	_____		0	0	0	0
25	_____		0	0	0	0
26	_____		0	0	0	0
27	_____		0	0	0	0
28	_____		0	0	0	0
29	_____		0	0	0	0
30	_____		0	0	0	0
31	_____		0	0	0	0

Time Base Coordination Events

Event	Day of Week	Season	Hour	Minute	Funct.	Phase / Bits
0	_____		0	0	0	_____
1	_____		0	0	0	_____
2	_____		0	0	0	_____
3	_____		0	0	0	_____
4	_____		0	0	0	_____
5	_____		0	0	0	_____
6	_____		0	0	0	_____
7	_____		0	0	0	_____
8	_____		0	0	0	_____
9	_____		0	0	0	_____
10	_____		0	0	0	_____
11	_____		0	0	0	_____
12	_____		0	0	0	_____
13	_____		0	0	0	_____
14	_____		0	0	0	_____
15	_____		0	0	0	_____

Time of Day Function Events

TOD Functions

0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Vehicle Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Vehicle Max Recall
10 = Soft Recall
11= Max Extension 2
12 = Conditional Service
13 = Lag Free Phases
14, Bit 1 = Local Override
14, Bit 4 = Disable Det Off Monitoring
15 = TOD Outputs

#	Holiday Type	Day	Month	Year
0	_____	0	0	0
1	_____	0	0	0
2	_____	0	0	0
3	_____	0	0	0
4	_____	0	0	0
5	_____	0	0	0
6	_____	0	0	0
7	_____	0	0	0
8	_____	0	0	0
9	_____	0	0	0
10	_____	0	0	0
11	_____	0	0	0
12	_____	0	0	0
13	_____	0	0	0
14	_____	0	0	0
15	_____	0	0	0
16	_____	0	0	0
17	_____	0	0	0
18	_____	0	0	0
19	_____	0	0	0
20	_____	0	0	0
21	_____	0	0	0
22	_____	0	0	0
23	_____	0	0	0
24	_____	0	0	0
25	_____	0	0	0
26	_____	0	0	0
27	_____	0	0	0
28	_____	0	0	0
29	_____	0	0	0
30	_____	0	0	0
31	_____	0	0	0

Holiday Dates

Event	Holiday Type	Hour	Minute	Plan	Offset
0	_____	0	0	0	0
1	_____	0	0	0	0
2	_____	0	0	0	0
3	_____	0	0	0	0
4	_____	0	0	0	0
5	_____	0	0	0	0
6	_____	0	0	0	0
7	_____	0	0	0	0
8	_____	0	0	0	0
9	_____	0	0	0	0
10	_____	0	0	0	0
11	_____	0	0	0	0
12	_____	0	0	0	0
13	_____	0	0	0	0
14	_____	0	0	0	0
15	_____	0	0	0	0
16	_____	0	0	0	0
17	_____	0	0	0	0
18	_____	0	0	0	0
19	_____	0	0	0	0
20	_____	0	0	0	0
21	_____	0	0	0	0
22	_____	0	0	0	0
23	_____	0	0	0	0
24	_____	0	0	0	0
25	_____	0	0	0	0
26	_____	0	0	0	0
27	_____	0	0	0	0
28	_____	0	0	0	0
29	_____	0	0	0	0
30	_____	0	0	0	0
31	_____	0	0	0	0

Holiday Time Base Coordination Events

Event	Holiday Type	Hour	Minute	Funct.	Phase / Bits
0	_____	0	0	0	_____
1	_____	0	0	0	_____
2	_____	0	0	0	_____
3	_____	0	0	0	_____
4	_____	0	0	0	_____
5	_____	0	0	0	_____
6	_____	0	0	0	_____
7	_____	0	0	0	_____
8	_____	0	0	0	_____
9	_____	0	0	0	_____
10	_____	0	0	0	_____
11	_____	0	0	0	_____
12	_____	0	0	0	_____
13	_____	0	0	0	_____
14	_____	0	0	0	_____
15	_____	0	0	0	_____

Holiday Time of Day Function Events

Season #	Start Month	Start Day	End Month	End Day
1	1	1	12	31
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0

Season Definitions

Red Start Time	5.0
Yellow Start Phases	_2___6__
First Green Phases	_____8
Startup Vehicle Calls	12345678
Startup Ped Calls	_2___67_

Startup

Max ON Time	5
Max OFF Time	15
Chatter	

Detector Check

	Sign 1	Sign 2
Phase Number	0	0
Time Before Yellow	0.0	0.0

Advance Warning Signs

Flash Entry Phases	_____
Flash Phases Yellow	_____
Flash Overlaps Yellow	_____
Flash Type	

Flash Setup

Exclusive Phases	_____
Protect / Permissive	_____
Disable Yellow Range	_____
Extra One	1_3_5___
Lag Phases - Free	_2_4_6_8

Configuration

Permitted Phases	12__5678
Restricted Phases	_____
Disable Overlap Range	_____
Extra Two	_____

Configuration

Keyboard Beep	
Backlight Timeout	
Spec Evnt 1 - Ltd Serv Interval	0
Spec Evnt 2 - Ltd Serv Interval	0
Red Revert	0.5

Miscellaneous

Spring Month (Begin)	
Spring Week (Begin)	
Fall Month (End)	
Fall Week (End)	

Daylight Savings Time

Manual Plan	
Manual Offset	

Manual

Manual Plan
1 thru 9 = Coordination Plan 1 thru 9
14 = Free
15 = Flash

Extra One
1 =
2 =
3 = Auto Daylight Savings
4 = Solid FDW on EV
5 = Extended Status
6 = International Ped
7 =
8 =

Extra Two
1 =
2 =
3 = Disable Min Walk
4 = QuicNet/4 System
5 = Ignor P/P on EV
6 =
7 =
8 =

Flash Type
0 = All On-Off (12345678-0)
1 = Main-Side (1256-3478)
2 = Ping Pong (1234-5678
3 = Ring Pairs (1638-5247)

Address				
Area Number				
Area Address				
IP Port				
IP Address				
Subnet Mask				
Gateway				

Ethernet Port Address

	Port 1	Port 2	Port 3	Port 4
Address				
Area Number				
Area Address				
Comm Time Out				
CTS Delay				
RTS Hold				
Baud Rate				
Data Format				

Communications Parameters

The City of Upland

INTERSECTION: Central Ave & 11th St

Group Assignment: **NONE**
Field Master Assignment: **NONE**
System Reference Number: **41**

N/S Street Name: **Central Ave**
E/W Street Name: **11th St**

Last Database Change: **4/24/2013 10:38**

Change Record					
Change	By	Date	Change	By	Date

Notes:

Drop Number	16	<C+0+0>
Zone Number		<C+0+1>
Area Number	1	<C+0+2>
Area Address	81	<C+0+3>
QuicNet Channel	COM109:	(QuicNet)

Communication Addresses

Manual Plan		<C+A+1>
Manual Offset		<C+B+1>

Manual Selection

Max Initial	20	<F+0+E>
Red Revert	5.0	<F+0+F>
All Red Start	5.0	<F+C+0>

Start / Revert Times

Row	Column Numbers ----> / Phase Names ---->	Phase 1	2	3	4	5	6	7	8
0	Ped Walk	0	7	0	7	0	7	0	7
1	Ped FDW	0	14	0	10	0	14	0	10
2	Min Green	0	3	3	6	0	3	3	6
3	Type 3 Limit	0	0	0	0	0	0	0	0
4	Added Initial	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Veh Extension	0.0	3.0	3.0	3.0	0.0	3.0	3.0	3.0
6	Max Gap	0.0	3.0	3.0	3.0	0.0	3.0	3.0	3.0
7	Min Gap	0.0	3.0	3.0	3.0	0.0	3.0	3.0	3.0
8	Max Limit	0	15	30	50	0	15	30	50
9	Max Limit 2	0	0	0	0	0	0	0	0
A	------	0	0	0	0	0	0	0	0
B	Call To Phase	0	0	0	0	0	0	0	0
C	Reduce By	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D	Reduce Every	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
E	Yellow Change	0.0	3.5	3.0	4.0	0.0	3.5	3.0	4.0
F	Red Clear	0.0	0.5	0.5	0.5	0.0	0.5	0.5	0.5

Phase Timing - Bank 1 <F Page>

	E
RR-1 Delay	0
RR-1 Clear	10
EV-A Delay	0
EV-A Clear	1
EV-B Delay	0
EV-B Clear	1
EV-C Delay	0
EV-C Clear	1
EV-D Delay	0
EV-D Clear	1
RR-2 Delay	0
RR-2 Clear	10
View EV Delay	- - -
View EV Clear	- - -
View RR Delay	- - -
View RR Clear	- - -

Preempt Timing

Row		F
0	Permit	_234_678
1	Red Lock	___4___8
2	Yellow Lock	_____
3	Min Recall	___4___8
4	Ped Recall	_____
5	*View Set Peds*	- - - - -
6	Rest In Walk	_____
7	Red Rest	_____
8	Dual Entry	_2_4_6_8
9	Max Recall	_____
A	Soft Recall	_____
B	Max 2	_____
C	Cond. Service	_____
D	Man Cntrl Calls	_____
E	Yellow Start	_2___6__
F	First Phases	__3____

Phase Functions <F Page>

Manual Plan
0 = Automatic
1-9 = Plan 1-9
14 = Free
15 = Flash

Manual Offset
0 = Automatic
1 = Offset A
2 = Offset B
3 = Offset C

The City of Upland

INTERSECTION: Central Ave & 11th St

Coordination <C Page>

Row	Column Numbers ---->	Plan 1	2	3	4	5	6	7	8	9	Row
	Plan Name ---->										
0	Cycle Length	100	100	100	100	100	100	100	100	100	0
1	Phase 1 - ForceOff	55	60	60	63	60	61	65	65	65	1
2	Phase 2 - ForceOff	0	0	0	0	0	0	0	0	0	2
3	Phase 3 - ForceOff	20	15	20	25	20	25	25	25	25	3
4	Phase 4 - ForceOff	40	40	40	40	40	40	40	40	40	4
5	Phase 5 - ForceOff	55	60	60	61	60	63	65	65	65	5
6	Phase 6 - ForceOff	0	0	0	0	0	0	0	0	0	6
7	Phase 7 - ForceOff	20	15	20	25	20	25	25	25	25	7
8	Phase 8 - ForceOff	40	40	40	40	40	40	40	40	40	8
9	Ring Offset	0	0	0	0	0	0	0	0	0	9
A	Offset 1	0	0	0	0	0	0	0	0	0	A
B	Offset 2	0	0	0	0	0	0	0	0	0	B
C	Offset 3	0	0	0	0	0	0	0	0	0	C
D	Permissive	12	12	12	12	12	12	12	12	0	D
E	Hold Release	255	255	255	255	255	255	255	255	0	E
F	Zone Offset	0	0	0	0	0	0	0	0	0	F

(* = Coordination Recall)

Sync Phases <C Page>

	E	Row
		0
Plan 1 - Sync	2 6	1
Plan 2 - Sync	2 6	2
Plan 3 - Sync	2 6	3
Plan 4 - Sync	2 6	4
Plan 5 - Sync	2 6	5
Plan 6 - Sync	2 6	6
Plan 7 - Sync	2 6	7
Plan 8 - Sync	2 6	8
Plan 9 - Sync	2 6	9
Coord Ped *		A
NEMA Hold		B
		C
		D
		E
		F

Configuration <E Page>

Row	Column Numbers ---->	E
0	Exclusive Phases	
1	RR-1 Clear Phases	
2	RR-2 Clear Phases	
3	RR-2 Limited Service	
4	Prot / Perm Phases	
5	Overlap A - Green Omit	
6	Overlap B - Green Omit	
7	Overlap C - Green Omit	
8	Overlap D - Green Omit	
9	Overlap Yellow Flash	
A	EV-A Phases	
B	EV-B Phases	
C	EV-C Phases	
D	EV-D Phases	
E	Extra 1 Config. Bits	1 3
F	IC Select (Interconnect)	2

Configuration <E Page>

	F
RR Overlap A - Phases	
RR Overlap B - Phases	
RR Overlap C - Phases	
RR Overlap D - Phases	
Ped 2P	2
Ped 6P	6
Ped 4P	4
Ped 8P	8
Yellow Flash Phases	
Overlap A - Phases	
Overlap B - Phases	
Overlap C - Phases	
Overlap D - Phases	
Restricted Phases	
Assign 5 Outputs	

Extra 1 Flags
1 = TBC Type 1
2 = NEMA Ext. Coord
3 = Auto Daylight Savings
4 = EV Advance
5 =
6 = Special Event
7 = Pretimed Operation
8 = Split Ring Operation

Assign 5 Outputs
(Ped Loadswitch Yellows)
1 = Right Turn Overlap
2 = TOD Outputs
3 = EV Beacon - Steady
4 = EV Beacon - Flashing
5 = Special Event Outputs
6 = Phase 3 & 7 Ped
7 = Advanced Warning Sign
8 =

Force-Off Adjust	0

Coord Force-Off Adjust for Ped Service <C+D+F>

Transition Type	0

TBC Transition <C+D+D>

Transition Type
0 = Shortway
Non-zero = Lengthen

IC Select Flags
1 =
2 = Modem
3 = 7-Wire Slave
4 = Flash / Free
5 =
6 = Simplex Master
7 = 7-Wire Master
8 = Offset Interrupter

Lag Phases <C Page>

	F	Row
Free Lag	2 4 6 8	0
Plan 1 - Lag	2 4 6 8	1
Plan 2 - Lag	2 4 6 8	2
Plan 3 - Lag	2 4 6 8	3
Plan 4 - Lag	2 4 6 8	4
Plan 5 - Lag	2 4 6 8	5
Plan 6 - Lag	2 4 6 8	6
Plan 7 - Lag	2 4 6 8	7
Plan 8 - Lag	2 4 6 8	8
Plan 9 - Lag	2 4 6 8	9
Coord Max *		A
Coord Lag *		B
		C
		D
		E
		F

The City of Upland

INTERSECTION: Central Ave & 11th St

Row	Time	Plan	Offset	Day of Week
0	00 : 00	0	0	
1	00 : 00	0	0	
2	00 : 00	0	0	
3	00 : 00	0	0	
4	00 : 00	0	0	
5	00 : 00	0	0	
6	00 : 00	0	0	
7	00 : 00	0	0	
8	00 : 00	0	0	
9	00 : 00	0	0	
A	00 : 00	0	0	
B	00 : 00	0	0	
C	00 : 00	0	0	
D	00 : 00	0	0	
E	00 : 00	0	0	
F	00 : 00	0	0	

TOD Coordination
<9 Key with C+D+9=0>

Time	Funct.	Day of Week	Column F Phases/Bits
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		
00 : 00	0		

TOD Function
<7 Key>

<D Page>

Time	Plan	Offset	Day of Week
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	

Holiday # 1
TOD Coordination
<9 Key with C+D+9=1>

Time	Plan	Offset	Day of Week
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	
00 : 00	0	0	

Holiday # 2
TOD Coordination
<9 Key with C+D+9=2>

Time	Plan	Offset	Day of Week	Row
00 : 00	0	0		0
00 : 00	0	0		1
00 : 00	0	0		2
00 : 00	0	0		3
00 : 00	0	0		4
00 : 00	0	0		5
00 : 00	0	0		6
00 : 00	0	0		7
00 : 00	0	0		8
00 : 00	0	0		9
00 : 00	0	0		A
00 : 00	0	0		B
00 : 00	0	0		C
00 : 00	0	0		D
00 : 00	0	0		E
00 : 00	0	0		F

Holiday # 3
TOD Coordination
<9 Key with C+D+9=3>

Plan Select
1 thru 9 = Coordination Plan 1 thru 9
14 or E = Free
15 or F = Flash

Offset Select
A = Offset A
B = Offset B
C = Offset C

T.O.D. Functions
0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Veh Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Veh Max Recall
A = Veh Soft Recall
B = Maximum 2
C = Conditional Service
D = Free Lag Phases
E = Bit 1 - Local Override
Bit 2 - Phase Bank 2
Bit 3 - Phase Bank 3
Bit 4 - Disable Detector OFF Monitor
Bit 7 - Detector Count Monitor
Bit 8 - Real Time Split Monitor
F = Output Bits 1 thru 4

Month Select
1 = January
2 = February
3 = March
4 = April
5 = May
6 = June
7 = July
8 = August
9 = September
A = October
B = November
C = December

Row		Day	Year	Month	Day of Week
A	Holiday # 1 Date	0	0	0	
B	Holiday # 2 Date	0	0	0	
C	Holiday # 3 Date	0	0	0	

Holiday Dates
<8 Key>

The City of Upland

INTERSECTION: Central Ave & 11th St

Row	1 Delay	3 Carry-over	Detector Name	332 Input File	Detector Number
0	0.0	0.0		I-1	14
1	0.0	0.0		I-2U	1
2	0.0	0.0		I-2L	5
3	0.0	0.0		I-3U	21
4	0.0	0.0		I-3L	25
5	0.0	0.0		I-4	9
6	0.0	0.0		I-5	16
7	0.0	0.0		I-6U	3
8	0.0	0.0		I-6L	7
9	0.0	0.0		I-7U	23
A	0.0	0.0		I-7L	27
B	0.0	0.0		I-8	11
C	0.0	0.0		I-9U	18
D	0.0	0.0		I-9L	20
E	---	---	---	---	---
F	---	---	---	---	---

Row	2 Delay	4 Carry-over	Detector Name	332 Input File	Detector Number
0	0.0	0.0		J-1	13
1	0.0	0.0		J-2U	2
2	0.0	0.0		J-2L	6
3	0.0	0.0		J-3U	22
4	0.0	0.0		J-3L	26
5	0.0	0.0		J-4	10
6	0.0	0.0		J-5	15
7	0.0	0.0		J-6U	4
8	0.0	0.0		J-6L	8
9	0.0	0.0		J-7U	24
A	0.0	0.0		J-7L	28
B	0.0	0.0		J-8	12
C	0.0	0.0		J-9U	17
D	0.0	0.0		J-9L	19
E	---	---	---	---	---
F	---	---	---	---	---

Detector Delay & Carryover <D Page>

Row		9 Green Clear	C Yellow Change	D Red Clear	0 Load-Switch #
A	Overlap A	0.0	0.0	0.0	0
B	Overlap B	0.0	0.0	0.0	0
C	Overlap C	0.0	0.0	0.0	0
D	Overlap D	0.0	0.0	0.0	0

Overlap Timing <F Page> <D Page>

Row	Detector Numbers	E
A	1 2 3 4 5 6 7 8	12345678
B	9 10 11 12 -- -- -- --	1234____
C	13 14 15 16 17 18 19 20	12345678
D	-- -- -- -- 21 22 23 24	____5678
E	-- -- -- -- -- -- -- --	1234____
F	-- 25 26 27 28 -- -- --	_2345___

Active Detectors <D Page>

Note: Initialized data is for all detectors to be active (ie, all flag bits set). A Detector which is "not flagged", will not be active as a Phase Detector, and WILL NOT call or extend its associated phase. It will still function as a System Detector.

Row		0 Detector Number
0		
1	System Det. # 1	0
2	System Det. # 2	0
3	System Det. # 3	0
4	System Det. # 4	0
5	System Det. # 5	0
6	System Det. # 6	0
7	System Det. # 7	0
8	System Det. # 8	0

System Detectors <D Page>

Max ON (minutes)	5	<D+A+E>
Max OFF (minutes)	60	<D+A+F>

Detector Failure Monitor

Phase Number	0	<F+C+1>
Time Before Yellow	0.0	<F+C+3>

Advance Warning Beacon - Sign 1

Phase Number	0	<F+D+1>
Time Before Yellow	0.0	<F+D+3>

Advance Warning Beacon - Sign 2

Long Failure	0.0	<F+0+6>
Short Failure	0.0	<F+0+7>

Power Cycle Correction (Default = 0.5)

Disable Parity	0	<D+B+0>

Dial-Up Telephone Communications
(If set to a non-zero value, parity will be disabled)

The City of Upland

INTERSECTION: Central Ave & 11th St

Row	Column Numbers ---->	Phase 1	2	3	4	5	6	7	8
	Phase Names ---->								
0	Ped Walk	0	7	0	7	0	7	0	7
1	Ped FDW	0	10	0	10	0	10	0	10
2	Min Green	3	7	3	7	3	7	3	7
3	Type 3 Limit	0	0	0	0	0	0	0	0
4	Added Initial	0.0	1.2	0.0	1.2	0.0	1.2	0.0	1.2
5	Veh Extension	0.5	3.5	0.5	3.5	0.5	3.5	0.5	3.5
6	Max Gap	0.5	5.0	0.5	5.0	0.5	5.0	0.5	5.0
7	Min Gap	0.5	2.0	0.5	2.0	0.5	2.0	0.5	2.0
8	Max Limit	17	40	17	40	17	40	17	40
9	Max Limit 2	30	70	30	70	30	70	30	70
A	------	0	0	0	0	0	0	0	0
B	Call To Phase	0	0	0	0	0	0	0	0
C	Reduce By	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
D	Reduce Every	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E	Yellow Change	3.0	4.0	3.0	4.0	3.0	4.0	3.0	4.0
F	Red Clear	0.0	0.5	0.0	1.0	0.0	0.5	0.0	1.0

Phase Timing - Bank 2 <F Page>

Row	Column Numbers ---->	Phase 1	2	3	4	5	6	7	8
	Phase Names ---->								
0	Ped Walk	0	7	0	7	0	7	0	7
1	Ped FDW	0	10	0	10	0	10	0	10
2	Min Green	3	7	3	7	3	7	3	7
3	Type 3 Limit	0	0	0	0	0	0	0	0
4	Added Initial	0.0	1.2	0.0	1.2	0.0	1.2	0.0	1.2
5	Veh Extension	0.5	3.5	0.5	3.5	0.5	3.5	0.5	3.5
6	Max Gap	0.5	5.0	0.5	5.0	0.5	5.0	0.5	5.0
7	Min Gap	0.5	2.0	0.5	2.0	0.5	2.0	0.5	2.0
8	Max Limit	17	40	17	40	17	40	17	40
9	Max Limit 2	30	70	30	70	30	70	30	70
A	------	0	0	0	0	0	0	0	0
B	Call To Phase	0	0	0	0	0	0	0	0
C	Reduce By	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
D	Reduce Every	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
E	Yellow Change	3.0	4.0	3.0	4.0	3.0	4.0	3.0	4.0
F	Red Clear	0.0	0.5	0.0	1.0	0.0	0.5	0.0	1.0

Phase Timing - Bank 3 <F Page>

Row	Delay Only --->	7 Time	8 Dwell	9 Hold	A Advance	B Force Off	C Vehicle Call	D Permit Phases	E Ped Omit	F Output
0		0	---	---	---	---	---	---	---	---
1		0	0							
2		0	0							
3		0	0							
4		0	0							
5		0	0							
6		0	0							
7		0	0							
8		0	0							
9	Limited Service	0	0							
A	Int. --->	---	0							
B		0	0							
C		0	0							
D		0	0							
E		0	0							
F		0	0							

Special Event Schedule <C Page with F+9+F=22>

<--- Limited Service Interval (Set Dwell = 255)

INTERSECTION: 24 Benson / Foothill

QuicNet System Parameters

Group Assignment: **NONE**
Field Master Assignment: **NONE**
System Reference Number: **24**
Commications Channel: **Not Assigned**
Drop Address: **22**
Area Number: **1**
Area Address: **24**

N/S Street Name: **Benson Ave**
E/W Street Name: **Foothill**

Last *QuicNet* Database Change: **1/27/2009 16:18**

This timing sheet is only valid after review and approval by the City Engineer/City Traffic Engineer for the City of Upland.

Initially Prepared By: Albert Grover & Assc/Greg Wong GCW **Date:** 2/2/09

Approved By: Anthony M. Le **Date:** 3/11/09

Implemented By: Mike Oliver **Date:** 4-21-09

Notes:

Field Change Record					
Change	By	Date	Change	By	Date

Exclusive Ped Phase	
Excl Ped Assignment	
Exclusive Walk	0
Exclusive FDW	0
All Red Clear	0.0

Note: Set the Exclusive Ped Outputs on the "Outputs / General" page

Walk Output	0
Don't Walk Output	0

	Phase							
	1	2	3	4	5	6	7	8
	WBL	EBT	NBL	SBT	EBL	WBT	SBL	NBT
Basic Phase Timing								
Min Green	5	5	5	5	5	5	5	5
Extension	3.0	2.5	2.0	3.0	2.0	2.5	2.0	2.5
Max	20	45	20	30	25	45	20	30
Max 2	50	50	50	50	50	50	50	50
Cond Serve Check	0	0	0	0	0	0	0	0
Clear								
Yellow Change	3.0	4.3	3.0	4.3	3.0	4.3	3.0	4.3
Red Clear	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Pedestrian Timing								
Walk	0	5	0	5	0	5	0	5
Ped Clear - FDW	0	13	0	23	0	14	0	23
Adv / Delay Walk	0	0	0	0	0	0	0	0
PE Min Ped FDW	0	0	0	0	0	0	0	0
Volume Density								
Type 3 Disconnect	0	0	0	0	0	0	0	0
Added per Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Max Added Initial	0	0	0	0	0	0	0	0
Min Gap	3.0	2.5	2.0	3.0	2.0	2.5	2.0	2.5
Max Gap	3.0	2.5	2.0	3.0	2.0	2.5	2.0	2.5
Reduce Every	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Phase Timing - Bank 1

	Phase							
	1	2	3	4	5	6	7	8
Alternate Walk	0	0	0	0	0	0	0	0
Alternate Ped Clear	0	0	0	0	0	0	0	0
Alternate Minimum	0	0	0	0	0	0	0	0
Alternate Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternate Timing - Bank 1

Red Lock		Red Rest	
Yellow Lock		Dual Entry	4 8
Simultaneous Gap		Sequential Timing	
Rest In Walk		Inhibit Ped Reservice	
Advance Walk		Semi-Actuated	
Flashing Walk		Guaranteed Passage	
Max Extension		Conditional Service	

Phase Functions - Page 1

Minimum Recall	2 6	Soft Recall	
Ped Recall		External Recall	
Maximum Recall		Manual Control Calls	
Green Flash		Fast Green Flash	
Overlap Green Flash		Fast Overlap G. Flash	

Phase Functions - Page 2

		Phase							
		1	2	3	4	5	6	7	8
Basic Phase Timing	Min Green	0	0	0	0	0	0	0	0
	Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max	0	0	0	0	0	0	0	0
	Max 2	0	0	0	0	0	0	0	0
	Cond Serve Check	0	0	0	0	0	0	0	0
Clear	Yellow Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Red Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Timing	Walk	0	0	0	0	0	0	0	0
	Ped Clear - FDW	0	0	0	0	0	0	0	0
	Adv / Delay Walk	0	0	0	0	0	0	0	0
	PE Min Ped FDW	0	0	0	0	0	0	0	0
Volume Density	Type 3 Disconnect	0	0	0	0	0	0	0	0
	Added per Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max Added Initial	0	0	0	0	0	0	0	0
	Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Reduce Every	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Phase Timing - Bank 2

		Phase							
		1	2	3	4	5	6	7	8
Basic Phase Timing	Min Green	0	0	0	0	0	0	0	0
	Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max	0	0	0	0	0	0	0	0
	Max 2	0	0	0	0	0	0	0	0
	Cond Serve Check	0	0	0	0	0	0	0	0
Clear	Yellow Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Red Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pedestrian Timing	Walk	0	0	0	0	0	0	0	0
	Ped Clear - FDW	0	0	0	0	0	0	0	0
	Adv / Delay Walk	0	0	0	0	0	0	0	0
	PE Min Ped FDW	0	0	0	0	0	0	0	0
Volume Density	Type 3 Disconnect	0	0	0	0	0	0	0	0
	Added per Vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max Added Initial	0	0	0	0	0	0	0	0
	Min Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Max Gap	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Reduce Every	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Phase Timing - Bank 3

	Phase							
	1	2	3	4	5	6	7	8
Alternate Walk	0	0	0	0	0	0	0	0
Alternate Ped Clear	0	0	0	0	0	0	0	0
Alternate Minimum	0	0	0	0	0	0	0	0
Alternate Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternate Timing - Bank 2

	Phase							
	1	2	3	4	5	6	7	8
Alternate Walk	0	0	0	0	0	0	0	0
Alternate Ped Clear	0	0	0	0	0	0	0	0
Alternate Minimum	0	0	0	0	0	0	0	0
Alternate Extension	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Alternate Timing - Bank 3

Clear Phases	
Delay	0
Clear Time	0

Railroad - 1

Clear Phases	
Limited Service Phases	
Delay	0
Clear Time	0

Railroad - 2

Railroad Preempt Parameters

	Delay	Clear	Clear Phases
EV - A	0	0	
EV - B	0	0	
EV - C	1	0	4 7
EV - D	1	0	3 8

Emergency Vehicle Preempt

SE - 1	
SE - 2	
EV - A	
EV - B	
EV - C	
EV - D	

Preempt Priority

Note: Set the Limited Service Interval on the "Utilities / Misc" page

Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Special Event Sequence - 1

Step	Time	Clear	Ped Call	Hold	Advance	Force Off	Vehicle Call	Permit	Ped Omit	Output
0	0									
1	0									
2	0									
3	0									
4	0									
5	0									
6	0									
7	0									
8	0									
9	0									
10	0									
11	0									
12	0									
13	0									
14	0									
15	0									

Special Event Sequence - 2

Transition Type	0.3
Coord Extra Functions	
Phase 1 - Minimum	10
Phase 2 - Minimum	10
Phase 3 - Minimum	10
Phase 4 - Minimum	10
Phase 5 - Minimum	10
Phase 6 - Minimum	10
Phase 7 - Minimum	10
Phase 8 - Minimum	10

Note: The *Ring-Barrier Sum* of these Minimums will be the Minimum Cycle Length During Transition

Coordination - General

Coord Extra
1 = Programmed Walk Time for Sync Phases
2 = Always Terminate Sync Phase Peds
3 = Use "Floating Force Off"
4 =
5 = Use "Start of Green" for Sync Point

Transition Type
0.X = Shortway
1.X = Lengthen Only
2.X = Shorten Only
X.1 thru X.4 = Number of Cycles to get "In Step"

	Coordination Plan								
	1	2	3	4	5	6	7	8	9
Cycle	100	110	110	0	0	0	0	0	0
Offset - 1	19	1	62	0	0	0	0	0	0
Offset - 2	0	0	0	0	0	0	0	0	0
Offset - 3	0	0	0	0	0	0	0	0	0
Zone Offset	0	0	0	0	0	0	0	0	0
Ring Offset	0	0	0	0	0	0	0	0	0
Hold Release	255	255	255	0	0	0	0	0	0
Ped Adjust	0	0	0	0	0	0	0	0	0
Force Off - 1	16	98	70	0	0	0	0	0	0
Force Off - 2	0	23	0	0	0	0	0	0	0
Force Off - 3	32	39	17	0	0	0	0	0	0
Force Off - 4	68	78	53	0	0	0	0	0	0
Force Off - 5	85	23	81	0	0	0	0	0	0
Force Off - 6	16	0	0	0	0	0	0	0	0
Force Off - 7	32	42	18	0	0	0	0	0	0
Force Off - 8	68	78	53	0	0	0	0	0	0

Coordination - Cycle, Offsets, & Force Offs

	Coordination Plan								
	1	2	3	4	5	6	7	8	9
Perm 1 - Begin	0	0	0	0	0	0	0	0	0
Perm 1 - End	2	9	1	0	0	0	0	0	0
Perm 1 - Veh Phases	1	5	12345678	12345678	12345678	12345678	12345678	12345678	12345678
Perm 1 - Ped Phases			12345678	12345678	12345678	12345678	12345678	12345678	12345678
Perm 2 - Begin	16	23	0	0	0	0	0	0	0
Perm 2 - End	17	24	0	0	0	0	0	0	0
Perm 2 - Veh Phases	34 78	34 78							
Perm 2 - Ped Phases	4 8	4 8							
Perm 3 - Begin	16	23	0	0	0	0	0	0	0
Perm 3 - End	72	86	0	0	0	0	0	0	0
Perm 3 - Veh Phases	5	1							
Perm 3 - Ped Phases	2 6	2 6							
Max Inhibit Phases	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678	12345678
Max Recall Phases									
Sync Phases	2 6	2 6	2 6	2 6	2 6	2 6	2 6	2 6	2 6
Lag Phases	1 4 6 8	2 45 8	2 4 6 8	2 4 6 8	2 4 6 8	2 4 6 8	2 4 6 8	2 4 6 8	2 4 6 8
Pre-Timed Phases									

Coordination - Permissives & Phase Sequence

	Overlap Number							
	1	2	3	4	5	6	7	8
Load Switch Number	0	0	0	0	0	0	0	0
Vehicle Set 1								
Vehicle Set 2								
Vehicle Set 3								
Negative Vehicle								
Negative Ped								
Green Omit								
Green Clear Omit								
Green Clearance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow Change	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Red Clearance	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Overlaps

	AND 1	AND 2	AND 3	AND 4
Input - A	0	0	0	0
Input - B	0	0	0	0
Output	0	0	0	0

AND Gates

	NAND 1	NAND 2	NAND 3	NAND 4
Input - A	0	0	0	0
Input - B	0	0	0	0
Output	0	0	0	0

NAND Gates

	OR 1	OR 2	OR 3	OR 4	OR 5	OR 6
Input - A	0	0	0	0	0	0
Input - B	0	0	0	0	0	0
Output	0	0	0	0	0	0

2 Input - OR Gates

	OR 7	OR 8
Input - A	0	0
Input - B	0	0
Input - C	0	0
Input - D	0	0
Output	0	0

4 Input - OR Gates

	NOT 1	NOT 2	NOT 3	NOT 4
Input	0	0	0	0
Output	0	0	0	0

NOT Gates (Inverters)

	DELAY 1	DELAY 2	DELAY 3	DELAY 4	DELAY 5	DELAY 6
Input	0	0	0	0	0	0
Delay Time	0	0	0	0	0	0
Output	0	0	0	0	0	0

DELAY Gates

Latch:	1	2	3	4	5	6	7	8
Set	0	0	0	0	0	0	0	0
Reset	0	0	0	0	0	0	0	0
Out	0	0	0	0	0	0	0	0
/Out	0	0	0	0	0	0	0	0

Logic Latches

Det. #	C-1 Pin #	Delay	Carry-over	Phase Assignmrnts	Detector Attributes	Detector Set Assignments
1	39	0.0	0.0	_2_____	___45_7_	123____8
2	40	0.0	0.0	_____6__	___45_7_	123____8
3	41	0.0	0.0	___4____	___45_7_	123____8
4	42	0.0	0.0	_______8	___45_7_	123____8
5	43	0.0	0.0	_2_____	___45_7_	123____8
6	44	0.0	0.0	_____6__	___45_7_	123____8
7	45	0.0	0.0	___4____	___45_7_	123____8
8	46	0.0	0.0	_______8	___45_7_	123____8
9	47	0.0	0.0	_2_____	_____67_	123____8
10	48	0.0	0.0	_____6__	_____67_	123____8
11	49	0.0	0.0	___4____	_____67_	123____8
12	50	0.0	0.0	_______8	_____67_	123____8
13	55	0.0	0.0	____5___	___45_7_	123____8
14	56	0.0	0.0	1_____	___45_7_	123____8
15	57	0.0	0.0	_____7_	___45_7_	123____8
16	58	0.0	0.0	__3____	___45_7_	123____8
17	59	0.0	0.0	____5___	___45_7_	123____8
18	60	0.0	0.0	1_____	___45_7_	123____8
19	61	0.0	0.0	_____7_	___45_7_	123____8
20	62	0.0	0.0	__3____	___45_7_	123____8
21	63	0.0	0.0	_2_____	___45_7_	123____8
22	64	0.0	0.0	_____6__	___45_7_	123____8
23	65	0.0	0.0	___4____	___45_7_	123____8
24	66	0.0	0.0	_______8	___45_7_	123____8
25	67	0.0	0.0	_2_____	_2_____	123____8
26	68	0.0	0.0	_____6__	_2_____	123____8
27	69	0.0	0.0	___4____	_2_____	123____8
28	70	0.0	0.0	_______8	_2_____	123____8
29	76	0.0	0.0	_2_____	___45_7_	123____8
30	77	0.0	0.0	_____6__	___45_7_	123____8
31	78	0.0	0.0	___4____	___45_7_	123____8
32	79	0.0	0.0	_______8	___45_7_	123____8

Detector Assignments

Detector Attributes
1 = Full Time Delay
2 = Ped Call
3 =
4 = Count
5 = Extension
6 = Type 3
7 = Calling
8 = Alternate

Detector Assignments
1 = Detector Set 1
2 = Detector Set 2
3 = Detector Set 3
4 =
5 =
6 = Failure - Min Recall
7 = Failure - Max Recall
8 = Report on Failure

	C-1 Pin #
Flash Sense	81
External Permit - 1	0
External Permit - 2	0
Exclusive Ped Omit	0
Max. Term Inhibit	0
Max. 2	0
External Lag Phases	0
External Max. Recall	0
Stop Time	82
Manual Control Enable	0
Manual Cont. Advance	0
External Min. Recall	0

General Inputs

	C-1 Pin #
Plan 1	0
Plan 2	0
Plan 3	0
Plan 4	0
Plan 5	0
Plan 6	0
Plan 7	0
Plan 8	0
Plan 9	0
Free	0
Flash	0

Coordination Plan Inputs

	C-1 Pin #
Railroad - 1	0
Railroad - 2	0
Special Event - 1	0
Special Event - 2	0
Gate Down	0
EV - A	0
EV - B	0
EV - C	0
EV - D	0

Preempt Inputs

	C-1 Pin #
Phase Bank - 2	0
Phase Bank - 3	0
Detector Set - 2	0
Detector Set - 3	0
Overlap Vehicle Set - 2	0
Overlap Vehicle Set - 3	0

Bank & Set Inputs

	C-1 Pin #
Door Ajar	0
UPS Battery	0
UPS Power	0
Cabinet Temperature	0

	C-1 Pin #
Alarm - 1	0
Alarm - 2	0
Alarm - 3	0
Alarm - 4	0

Alarm Inputs

	C-1 Pin #
Advance Warning - 1	0
Advance Warning - 2	0
Detector Failure	0
Flasher - Alternating 1	0
Flasher - Alternating 2	0
Fast Flasher	0
On Line	0
Exclusive - Walk	0
Exclusive - Don't Walk	0

General Outputs

	C-1 Pin #
Output - 1	0
Output - 2	0
Output - 3	0
Output - 4	0
Output - 5	0
Output - 6	0
Output - 7	0
Output - 8	0

Time of Day Outputs

	C-1 Pin #
Plan - 1	0
Plan - 2	0
Plan - 3	0
Plan - 4	0
Plan - 5	0
Plan - 6	0
Plan - 7	0
Plan - 8	0
Plan - 9	0
Free	0
Flash	

Coordination Plan Out

	Ped Phase
Ped 2-P Loadswitch	2
Ped 4-P Loadswitch	4
Ped 6-P Loadswitch	6
Ped 8-P Loadswitch	8

Ped Loadswitch Assignment

	C-1 Pin #
Dial - 2	0
Dial - 3	0
Offset - 1	0
Offset - 2	0
Offset - 3	0
Free	0
Flash	0

Seven Wire Outputs

	C-1 Pin #	
	On	Flash
Railroad - 1	0	0
Railroad - 2	0	0
Special Event - 1	0	0
Special Event - 2	0	0
Preempt Failure	0	0
EV - A	0	0
EV - B	0	0
EV - C	0	0
EV - D	0	0
Any Preempt	0	0

Preemption Outputs

	C-1 Pin #
Output - 1	0
Output - 2	0
Output - 3	0
Output - 4	0
Output - 5	0
Output - 6	0
Output - 7	0
Output - 8	0

Special Event Outputs

	C-1 Pin #
Output - 1	0
Output - 2	0
Output - 3	0
Output - 4	0
Output - 5	0
Output - 6	0
Output - 7	0
Output - 8	0

Special Function Output

	Phase Number							
	1	2	3	4	5	6	7	8
Red	0	0	0	0	0	0	0	0
Yellow	0	0	0	0	0	0	0	0
Green	0	0	0	0	0	0	0	0
Walk	0	0	0	0	0	0	0	0
Don't Walk	0	0	0	0	0	0	0	0

Phase Output Redirection

	Overlap Number							
	1	2	3	4	5	6	7	8
Red	0	0	0	0	0	0	0	0
Yellow	0	0	0	0	0	0	0	0
Green	0	0	0	0	0	0	0	0

Overlap Output Redirection

Event	Day of Week	Season	Hour	Minute	Plan	Offset
0	1234567		0	0	E	A
1	_23456_		6	0	1	A
2	_23456_		10	5	2	A
3	_23456_		14	40	3	A
4	_23456_		22	0	E	A
5	1____7		9	10	2	A
6	1____7		19	0	E	A
7	_____		0	0	0	0
8	_____		0	0	0	0
9	_____		0	0	0	0
10	_____		0	0	0	0
11	_____		0	0	0	0
12	_____		0	0	0	0
13	_____		0	0	0	0
14	_____		0	0	0	0
15	_____		0	0	0	0
16	_____		0	0	0	0
17	_____		0	0	0	0
18	_____		0	0	0	0
19	_____		0	0	0	0
20	_____		0	0	0	0
21	_____		0	0	0	0
22	_____		0	0	0	0
23	_____		0	0	0	0
24	_____		0	0	0	0
25	_____		0	0	0	0
26	_____		0	0	0	0
27	_____		0	0	0	0
28	_____		0	0	0	0
29	_____		0	0	0	0
30	_____		0	0	0	0
31	_____		0	0	0	0

Time Base Coordination Events

Event	Day of Week	Season	Hour	Minute	Funct.	Phase / Bits
0	_____		0	0	0	_____
1	_____		0	0	0	_____
2	_____		0	0	0	_____
3	_____		0	0	0	_____
4	_____		0	0	0	_____
5	_____		0	0	0	_____
6	_____		0	0	0	_____
7	_____		0	0	0	_____
8	_____		0	0	0	_____
9	_____		0	0	0	_____
10	_____		0	0	0	_____
11	_____		0	0	0	_____
12	_____		0	0	0	_____
13	_____		0	0	0	_____
14	_____		0	0	0	_____
15	_____		0	0	0	_____

Time of Day Function Events

TOD Functions

0 = Permitted Phases
1 = Red Lock
2 = Yellow Lock
3 = Vehicle Min Recall
4 = Ped Recall
5 =
6 = Rest In Walk
7 = Red Rest
8 = Double Entry
9 = Vehicle Max Recall
10 = Soft Recall
11= Max Extension 2
12 = Conditional Service
13 = Lag Free Phases
14, Bit 1 = Local Override
14, Bit 4 = Disable Det Off Monitoring
15 = TOD Outputs

#	Holiday Type	Day	Month	Year
0		0	0	0
1		0	0	0
2		0	0	0
3		0	0	0
4		0	0	0
5		0	0	0
6		0	0	0
7		0	0	0
8		0	0	0
9		0	0	0
10		0	0	0
11		0	0	0
12		0	0	0
13		0	0	0
14		0	0	0
15		0	0	0
16		0	0	0
17		0	0	0
18		0	0	0
19		0	0	0
20		0	0	0
21		0	0	0
22		0	0	0
23		0	0	0
24		0	0	0
25		0	0	0
26		0	0	0
27		0	0	0
28		0	0	0
29		0	0	0
30		0	0	0
31		0	0	0

Holiday Dates

Event	Holiday Type	Hour	Minute	Plan	Offset
0		0	0	0	0
1		0	0	0	0
2		0	0	0	0
3		0	0	0	0
4		0	0	0	0
5		0	0	0	0
6		0	0	0	0
7		0	0	0	0
8		0	0	0	0
9		0	0	0	0
10		0	0	0	0
11		0	0	0	0
12		0	0	0	0
13		0	0	0	0
14		0	0	0	0
15		0	0	0	0
16		0	0	0	0
17		0	0	0	0
18		0	0	0	0
19		0	0	0	0
20		0	0	0	0
21		0	0	0	0
22		0	0	0	0
23		0	0	0	0
24		0	0	0	0
25		0	0	0	0
26		0	0	0	0
27		0	0	0	0
28		0	0	0	0
29		0	0	0	0
30		0	0	0	0
31		0	0	0	0

Holiday Time Base Coordination Events

Event	Holiday Type	Hour	Minute	Funct.	Phase / Bits
0		0	0	0	
1		0	0	0	
2		0	0	0	
3		0	0	0	
4		0	0	0	
5		0	0	0	
6		0	0	0	
7		0	0	0	
8		0	0	0	
9		0	0	0	
10		0	0	0	
11		0	0	0	
12		0	0	0	
13		0	0	0	
14		0	0	0	
15		0	0	0	

Holiday Time of Day Function Events

Season #	Start Month	Start Day	End Month	End Day
1	1	1	12	31
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
7	0	0	0	0
8	0	0	0	0

Season Definitions

Red Start Time	5.0
Yellow Start Phases	_2___6__
First Green Phases	___4___8
Startup Vehicle Calls	12345678
Startup Ped Calls	_2_4_6_8

Startup

Max ON Time	5
Max OFF Time	15
Chatter	

Detector Check

	Sign 1	Sign 2
Phase Number	0	0
Time Before Yellow	0.0	0.0

Advance Warning Signs

Flash Entry Phases	_____
Flash Phases Yellow	_____
Flash Overlaps Yellow	_____
Flash Type	

Flash Setup

Exclusive Phases	_____
Protect / Permissive	_____
Disable Yellow Range	_____
Extra One	1_3_5___
Lag Phases - Free	_2_4_6_8

Configuration

Permitted Phases	12345678
Restricted Phases	_____
Disable Overlap Range	_____
Extra Two	_____

Configuration

Keyboard Beep	
Backlight Timeout	
Spec Evnt 1 - Ltd Serv Interval	0
Spec Evnt 2 - Ltd Serv Interval	0
Red Revert	0.5

Miscellaneous

Spring Month (Begin)	
Spring Week (Begin)	
Fall Month (End)	
Fall Week (End)	

Daylight Savings Time

Manual Plan	
Manual Offset	

Manual

Manual Plan
1 thru 9 = Coordination Plan 1 thru 9
14 = Free
15 = Flash

Extra One
1 =
2 =
3 = Auto Daylight Savings
4 = Solid FDW on EV
5 = Extended Status
6 = International Ped
7 =
8 =

Extra Two
1 =
2 =
3 = Disable Min Walk
4 = QuicNet/4 System
5 = Ignor P/P on EV
6 =
7 =
8 =

Address	
Area Number	
Area Address	
IP Port	
IP Address	
Subnet Mask	
Gateway	

Ethernet Port Address

Flash Type
0 = All On-Off (12345678-0)
1 = Main-Side (1256-3478)
2 = Ping Pong (1234-5678
3 = Ring Pairs (1638-5247)

	Port 1	Port 2	Port 3	Port 4
Address				
Area Number				
Area Address				
Comm Time Out				
CTS Delay				
RTS Hold				
Baud Rate				
Data Format				

Communications Parameters

APPENDIX C

VOLUME DEVELOPMENT WORKSHEETS

LSA

Table C-1 - Existing Peak Hour PCE Volume Summary

		AM Peak Hour	PM Peak Hour
		Existing Traffic Volumes	Existing Traffic Volumes
1	**Central Avenue/Foothill Boulevard**		
NBL		165	118
NBT		0	0
NBR		197	363
SBL		0	1
SBT		0	0
SBR		0	0
EBL		0	5
EBT		451	1,036
EBR		119	139
WBL		177	208
WBT		737	560
WBR		0	0
North Leg			
	Approach	0	1
	Departure	0	5
	Total	0	6
South Leg			
	Approach	362	481
	Departure	296	347
	Total	658	828
East Leg			
	Approach	914	768
	Departure	648	1,400
	Total	1,562	2,168
West Leg			
	Approach	570	1,180
	Departure	902	678
	Total	1,472	1,858
Total Approaches			
	Approach	1,846	2,430
	Departure	1,846	2,430
	Total	3,692	4,860

LSA

Table C-1 - Existing Peak Hour PCE Volume Summary

		AM Peak Hour Existing Traffic Volumes	PM Peak Hour Existing Traffic Volumes
2	**Central Avenue/11th Street**		
NBL		37	28
NBT		350	441
NBR		94	85
SBL		23	28
SBT		238	329
SBR		29	19
EBL		16	44
EBT		46	77
EBR		25	41
WBL		63	87
WBT		71	71
WBR		13	50
North Leg			
	Approach	290	376
	Departure	379	535
	Total	669	911
South Leg			
	Approach	481	554
	Departure	326	457
	Total	807	1,011
East Leg			
	Approach	147	208
	Departure	163	190
	Total	310	398
West Leg			
	Approach	87	162
	Departure	137	118
	Total	224	280
Total Approaches			
	Approach	1,005	1,300
	Departure	1,005	1,300
	Total	2,010	2,600

LSA

Table C-1 - Existing Peak Hour PCE Volume Summary

	AM Peak Hour	PM Peak Hour
	Existing Traffic Volumes	Existing Traffic Volumes
3 Project Driveway 1/Foothill Boulevard		
Intersection does not exist under Existing Conditions.		

LSA

Table C-1 - Existing Peak Hour PCE Volume Summary

	AM Peak Hour	PM Peak Hour
	Existing Traffic Volumes	Existing Traffic Volumes
4 Project Driveway 2/Foothill Boulevard		
	Intersection does not exist under Existing Conditions.	

LSA

Table C-1 - Existing Peak Hour PCE Volume Summary

		AM Peak Hour Existing Traffic Volumes	PM Peak Hour Existing Traffic Volumes
5	**Benson Avenue/Foothill Boulevard**		
NBL		67	85
NBT		243	428
NBR		77	134
SBL		122	145
SBT		476	407
SBR		205	151
EBL		107	286
EBT		403	984
EBR		57	107
WBL		114	119
WBT		602	583
WBR		146	119
North Leg			
	Approach	803	703
	Departure	496	833
	Total	1,299	1,536
South Leg			
	Approach	387	647
	Departure	647	633
	Total	1,034	1,280
East Leg			
	Approach	862	821
	Departure	602	1,263
	Total	1,464	2,084
West Leg			
	Approach	567	1,377
	Departure	874	819
	Total	1,441	2,196
Total Approaches			
	Approach	2,619	3,548
	Departure	2,619	3,548
	Total	5,238	7,096

LSA

Table C-2 - Project Opening Year (2024) Peak Hour PCE Volume Summary

	AM Peak Hour							PM Peak Hour						
	Existing (2022) PCE	2022-2,024 Growth	Cumulative Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project	Existing (2022) PCE	2022-2,024 Growth	Cumulativ Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project
1 Central Avenue/Foothill Boulevard														
NBL	165	7	6	178	0	0	178	118	5	4	127	0	0	127
NBT	0	0	17	17	0	0	17	0	0	21	21	0	0	21
NBR	197	8	12	217	23	0	240	363	15	13	391	17	0	408
SBL	0	0	10	10	0	0	10	1	0	7	8	0	0	8
SBT	0	0	17	17	0	0	17	0	0	12	12	0	0	12
SBR	0	0	29	29	0	0	29	0	0	20	20	0	0	20
EBL	0	0	30	30	0	0	30	5	0	38	43	0	0	43
EBT	451	18	60	529	14	0	543	1,036	41	50	1,127	10	0	1,137
EBR	119	5	4	128	0	0	128	139	6	6	151	0	0	151
WBL	177	7	11	195	18	0	213	208	8	12	228	15	0	243
WBT	737	29	52	818	12	0	830	560	22	64	646	10	0	656
WBR	0	0	10	10	0	0	10	0	0	13	13	0	0	13
North Leg														
Approach	0	0	56	56	0	0	56	1	0	39	40	0	0	40
Departure	0	0	57	57	0	0	57	5	0	72	77	0	0	77
Total	0	0	113	113	0	0	113	6	0	111	117	0	0	117
South Leg														
Approach	362	15	35	412	23	0	435	481	20	38	539	17	0	556
Departure	296	12	32	340	18	0	358	347	14	30	391	15	0	406
Total	658	27	67	752	41	0	793	828	34	68	930	32	0	962
East Leg														
Approach	914	36	73	1,023	30	0	1,053	768	30	89	887	25	0	912
Departure	648	26	82	756	37	0	793	1,400	56	70	1,526	27	0	1,553
Total	1,562	62	155	1,779	67	0	1,846	2,168	86	159	2,413	52	0	2,465
West Leg														
Approach	570	23	94	687	14	0	701	1,180	47	94	1,321	10	0	1,331
Departure	902	36	87	1,025	12	0	1,037	678	27	88	793	10	0	803
Total	1,472	59	181	1,712	26	0	1,738	1,858	74	182	2,114	20	0	2,134
Total Approaches														
Approach	1,846	74	258	2,178	67	0	2,245	2,430	97	260	2,787	52	0	2,839
Departure	1,846	74	258	2,178	67	0	2,245	2,430	97	260	2,787	52	0	2,839
Total	3,692	148	516	4,356	134	0	4,490	4,860	194	520	5,574	104	0	5,678

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Table C-2 - Project Opening Year (2024) Peak Hour PCE Volume Summary

	AM Peak Hour							PM Peak Hour						
	Existing (2022) PCE	2022-2,024 Growth	Cumulative Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project	Existing (2022) PCE	2022-2,024 Growth	Cumulativ Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project
2 Central Avenue/11th Street														
NBL	37	1	6	44	0	0	44	28	1	4	33	0	0	33
NBT	350	14	32	396	23	0	419	441	18	35	494	17	0	511
NBR	94	4	7	105	0	0	105	85	3	6	94	0	0	94
SBL	23	1	0	24	0	0	24	28	1	0	29	0	0	29
SBT	238	10	30	278	18	0	296	329	13	27	369	15	0	384
SBR	29	1	2	32	0	0	32	19	1	3	23	0	0	23
EBL	16	1	3	20	0	0	20	44	2	3	49	0	0	49
EBT	46	2	30	78	0	0	78	77	3	22	102	0	0	102
EBR	25	1	7	33	0	0	33	41	2	8	51	0	0	51
WBL	63	3	12	78	0	0	78	87	3	13	103	0	0	103
WBT	71	3	14	88	0	0	88	71	3	29	103	0	0	103
WBR	13	1	0	14	0	0	14	50	2	0	52	0	0	52
North Leg														
Approach	290	12	32	334	18	0	352	376	15	30	421	15	0	436
Departure	379	16	35	430	23	0	453	535	22	38	595	17	0	612
Total	669	28	67	764	41	0	805	911	37	68	1,016	32	0	1,048
South Leg														
Approach	481	19	45	545	23	0	568	554	22	45	621	17	0	638
Departure	326	14	49	389	18	0	407	457	18	48	523	15	0	538
Total	807	33	94	934	41	0	975	1,011	40	93	1,144	32	0	1,176
East Leg														
Approach	147	7	26	180	0	0	180	208	8	42	258	0	0	258
Departure	163	7	37	207	0	0	207	190	7	28	225	0	0	225
Total	310	14	63	387	0	0	387	398	15	70	483	0	0	483
West Leg														
Approach	87	4	40	131	0	0	131	162	7	33	202	0	0	202
Departure	137	5	22	164	0	0	164	118	5	36	159	0	0	159
Total	224	9	62	295	0	0	295	280	12	69	361	0	0	361
Total Approaches														
Approach	1,005	42	143	1,190	41	0	1,231	1,300	52	150	1,502	32	0	1,534
Departure	1,005	42	143	1,190	41	0	1,231	1,300	52	150	1,502	32	0	1,534
Total	2,010	84	286	2,380	82	0	2,462	2,600	104	300	3,004	64	0	3,068

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Table C-2 - Project Opening Year (2024) Peak Hour PCE Volume Summary

	AM Peak Hour							PM Peak Hour						
	Existing (2022) PCE	2022-2,024 Growth	Cumulative Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project	Existing (2022) PCE	2022-2,024 Growth	Cumulativ Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project
3 Project Driveway 1/Foothill Boulevard														
NBL	0	0	0	0	29	23	52	0	0	0	0	24	11	35
NBT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EBT	640	26	83	749	0	(17)	732	1,420	57	70	1,547	0	(21)	1,526
EBR	0	0	0	0	36	17	53	0	0	0	0	27	21	48
WBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WBT	918	37	74	1,029	0	(24)	1,005	817	33	90	940	0	(13)	927
WBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Leg														
Approach	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Leg														
Approach	0	0	0	0	29	23	52	0	0	0	0	24	11	35
Departure	0	0	0	0	36	17	53	0	0	0	0	27	21	48
Total	0	0	0	0	65	40	105	0	0	0	0	51	32	83
East Leg														
Approach	918	37	74	1,029	0	(24)	1,005	817	33	90	940	0	(13)	927
Departure	640	26	83	749	0	(17)	732	1,420	57	70	1,547	0	(21)	1,526
Total	1,558	63	157	1,778	0	(41)	1,737	2,237	90	160	2,487	0	(34)	2,453
West Leg														
Approach	640	26	83	749	36	0	785	1,420	57	70	1,547	27	0	1,574
Departure	918	37	74	1,029	29	(1)	1,057	817	33	90	940	24	(2)	962
Total	1,558	63	157	1,778	65	(1)	1,842	2,237	90	160	2,487	51	(2)	2,536
Total Approaches														
Approach	1,558	63	157	1,778	65	(1)	1,842	2,237	90	160	2,487	51	(2)	2,536
Departure	1,558	63	157	1,778	65	(1)	1,842	2,237	90	160	2,487	51	(2)	2,536
Total	3,116	126	314	3,556	130	(2)	3,684	4,474	180	320	4,974	102	(4)	5,072

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Table C-2 - Project Opening Year (2024) Peak Hour PCE Volume Summary

	AM Peak Hour							PM Peak Hour						
	Existing (2022) PCE	2022-2,024 Growth	Cumulative Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project	Existing (2022) PCE	2022-2,024 Growth	Cumulativ Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project
4 Project Driveway 2/Foothill Boulevard														
NBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NBR	0	0	0	0	18	16	34	0	0	0	0	14	20	34
SBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EBT	651	26	83	760	0	(17)	743	1,436	57	70	1,563	0	(21)	1,542
EBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WBL	0	0	0	0	21	24	45	0	0	0	0	14	13	27
WBT	944	38	74	1,056	0	(24)	1,032	838	34	90	962	0	(13)	949
WBR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Leg														
Approach	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Leg														
Approach	0	0	0	0	18	16	34	0	0	0	0	14	20	34
Departure	0	0	0	0	21	24	45	0	0	0	0	14	13	27
Total	0	0	0	0	39	40	79	0	0	0	0	28	33	61
East Leg														
Approach	944	38	74	1,056	21	0	1,077	838	34	90	962	14	0	976
Departure	651	26	83	760	18	(1)	777	1,436	57	70	1,563	14	(1)	1,576
Total	1,595	64	157	1,816	39	(1)	1,854	2,274	91	160	2,525	28	(1)	2,552
West Leg														
Approach	651	26	83	760	0	(17)	743	1,436	57	70	1,563	0	(21)	1,542
Departure	944	38	74	1,056	0	(24)	1,032	838	34	90	962	0	(13)	949
Total	1,595	64	157	1,816	0	(41)	1,775	2,274	91	160	2,525	0	(34)	2,491
Total Approaches														
Approach	1,595	64	157	1,816	39	(1)	1,854	2,274	91	160	2,525	28	(1)	2,552
Departure	1,595	64	157	1,816	39	(1)	1,854	2,274	91	160	2,525	28	(1)	2,552
Total	3,190	128	314	3,632	78	(2)	3,708	4,548	182	320	5,050	56	(2)	5,104

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Table C-2 - Project Opening Year (2024) Peak Hour PCE Volume Summary

	AM Peak Hour							PM Peak Hour						
	Existing (2022) PCE	2022-2,024 Growth	Cumulative Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project	Existing (2022) PCE	2022-2,024 Growth	Cumulativ Project Trips	OY Without Project	Net Project Trips	Pass-by Trips	OY Plus Project
5 Benson Avenue/Foothill Boulevard														
NBL	67	3	9	79	4	0	83	85	3	9	97	3	0	100
NBT	243	10	44	297	0	0	297	428	17	38	483	0	0	483
NBR	77	3	38	118	0	0	118	134	5	26	165	0	0	165
SBL	122	5	18	145	0	0	145	145	6	14	165	0	0	165
SBT	476	19	35	530	0	0	530	407	16	37	460	0	0	460
SBR	205	8	9	222	5	0	227	151	6	6	163	2	0	165
EBL	107	4	4	115	4	0	119	286	11	9	306	3	0	309
EBT	403	16	70	489	12	0	501	984	39	50	1,073	9	0	1,082
EBR	57	2	9	68	3	0	71	107	4	6	117	2	0	119
WBL	114	5	23	142	0	0	142	119	5	36	160	0	0	160
WBT	602	24	54	680	13	0	693	583	23	73	679	8	0	687
WBR	146	6	14	166	0	0	166	119	5	20	144	0	0	144
North Leg														
Approach	803	32	62	897	5	0	902	703	28	57	788	2	0	790
Departure	496	20	62	578	4	0	582	833	33	67	933	3	0	936
Total	1,299	52	124	1,475	9	0	1,484	1,536	61	124	1,721	5	0	1,726
South Leg														
Approach	387	16	91	494	4	0	498	647	25	73	745	3	0	748
Departure	647	26	67	740	3	0	743	633	25	79	737	2	0	739
Total	1,034	42	158	1,234	7	0	1,241	1,280	50	152	1,482	5	0	1,487
East Leg														
Approach	862	35	91	988	13	0	1,001	821	33	129	983	8	0	991
Departure	602	24	126	752	12	0	764	1,263	50	90	1,403	9	0	1,412
Total	1,464	59	217	1,740	25	0	1,765	2,084	83	219	2,386	17	0	2,403
West Leg														
Approach	567	22	83	672	19	0	691	1,377	54	65	1,496	14	0	1,510
Departure	874	35	72	981	22	0	1,003	819	32	88	939	13	0	952
Total	1,441	57	155	1,653	41	0	1,694	2,196	86	153	2,435	27	0	2,462
Total Approaches														
Approach	2,619	105	327	3,051	41	0	3,092	3,548	140	324	4,012	27	0	4,039
Departure	2,619	105	327	3,051	41	0	3,092	3,548	140	324	4,012	27	0	4,039
Total	5,238	210	654	6,102	82	0	6,184	7,096	280	648	8,024	54	0	8,078

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Table C-3 - Horizon Year (2045) Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project
1 Central Avenue/Foothill Boulevard								
NBL	287	0	0	287	133	0	0	133
NBT	18	0	0	18	22	0	0	22
NBR	228	23	0	251	411	17	0	428
SBL	11	0	0	11	223	0	0	223
SBT	18	0	0	18	13	0	0	13
SBR	30	0	0	30	21	0	0	21
EBL	32	0	0	32	170	0	0	170
EBT	555	14	0	569	1,234	10	0	1,244
EBR	171	0	0	171	159	0	0	159
WBL	205	18	0	223	255	15	0	270
WBT	1,148	12	0	1,160	740	10	0	750
WBR	11	0	0	11	14	0	0	14
North Leg								
Approach	59	0	0	59	257	0	0	257
Departure	61	0	0	61	206	0	0	206
Total	120	0	0	120	463	0	0	463
South Leg								
Approach	533	23	0	556	566	17	0	583
Departure	394	18	0	412	427	15	0	442
Total	927	41	0	968	993	32	0	1,025
East Leg								
Approach	1,364	30	0	1,394	1,009	25	0	1,034
Departure	794	37	0	831	1,868	27	0	1,895
Total	2,158	67	0	2,225	2,877	52	0	2,929
West Leg								
Approach	758	14	0	772	1,563	10	0	1,573
Departure	1,465	12	0	1,477	894	10	0	904
Total	2,223	26	0	2,249	2,457	20	0	2,477
Total Approaches								
Approach	2,714	67	0	2,781	3,395	52	0	3,447
Departure	2,714	67	0	2,781	3,395	52	0	3,447
Total	5,428	134	0	5,562	6,790	104	0	6,894

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Table C-3 - Horizon Year (2045) Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project
2 Central Avenue/11th Street								
NBL	55	0	0	55	35	0	0	35
NBT	463	23	0	486	519	17	0	536
NBR	205	0	0	205	140	0	0	140
SBL	49	0	0	49	41	0	0	41
SBT	292	18	0	310	385	15	0	400
SBR	42	0	0	42	24	0	0	24
EBL	21	0	0	21	51	0	0	51
EBT	95	0	0	95	155	0	0	155
EBR	35	0	0	35	66	0	0	66
WBL	83	0	0	83	201	0	0	201
WBT	129	0	0	129	134	0	0	134
WBR	21	0	0	21	70	0	0	70
North Leg								
Approach	383	18	0	401	450	15	0	465
Departure	505	23	0	528	640	17	0	657
Total	888	41	0	929	1,090	32	0	1,122
South Leg								
Approach	723	23	0	746	694	17	0	711
Departure	410	18	0	428	652	15	0	667
Total	1,133	41	0	1,174	1,346	32	0	1,378
East Leg								
Approach	233	0	0	233	405	0	0	405
Departure	349	0	0	349	336	0	0	336
Total	582	0	0	582	741	0	0	741
West Leg								
Approach	151	0	0	151	272	0	0	272
Departure	226	0	0	226	193	0	0	193
Total	377	0	0	377	465	0	0	465
Total Approaches								
Approach	1,490	41	0	1,531	1,821	32	0	1,853
Departure	1,490	41	0	1,531	1,821	32	0	1,853
Total	2,980	82	0	3,062	3,642	64	0	3,706

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Table C-3 - Horizon Year (2045) Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project
3 Project Driveway 1/Foothill Boulevard								
NBL	0	29	23	52	0	24	11	35
NBT	0	0	0	0	0	0	0	0
NBR	0	0	0	0	0	0	0	0
SBL	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0
SBR	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0
EBT	786	0	(17)	769	1,782	0	(21)	1,761
EBR	0	36	17	53	0	27	21	48
WBL	0	0	0	0	0	0	0	0
WBT	1,388	0	(24)	1,364	1,046	0	(13)	1,033
WBR	0	0	0	0	0	0	0	0
North Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
South Leg								
Approach	0	29	23	52	0	24	11	35
Departure	0	36	17	53	0	27	21	48
Total	0	65	40	105	0	51	32	83
East Leg								
Approach	1,388	0	(24)	1,364	1,046	0	(13)	1,033
Departure	786	0	(17)	769	1,782	0	(21)	1,761
Total	2,174	0	(41)	2,133	2,828	0	(34)	2,794
West Leg								
Approach	786	36	0	822	1,782	27	0	1,809
Departure	1,388	29	(1)	1,416	1,046	24	(2)	1,068
Total	2,174	65	(1)	2,238	2,828	51	(2)	2,877
Total Approaches								
Approach	2,174	65	(1)	2,238	2,828	51	(2)	2,877
Departure	2,174	65	(1)	2,238	2,828	51	(2)	2,877
Total	4,348	130	(2)	4,476	5,656	102	(4)	5,754

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Table C-3 - Horizon Year (2045) Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project
4 Project Driveway 2/Foothill Boulevard								
NBL	0	0	0	0	0	0	0	0
NBT	0	0	0	0	0	0	0	0
NBR	0	18	16	34	0	14	20	34
SBL	0	0	0	0	0	0	0	0
SBT	0	0	0	0	0	0	0	0
SBR	0	0	0	0	0	0	0	0
EBL	0	0	0	0	0	0	0	0
EBT	798	0	(17)	781	1,798	0	(21)	1,777
EBR	0	0	0	0	0	0	0	0
WBL	0	21	24	45	0	14	13	27
WBT	1,414	0	(24)	1,390	1,067	0	(13)	1,054
WBR	0	0	0	0	0	0	0	0
North Leg								
Approach	0	0	0	0	0	0	0	0
Departure	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
South Leg								
Approach	0	18	16	34	0	14	20	34
Departure	0	21	24	45	0	14	13	27
Total	0	39	40	79	0	28	33	61
East Leg								
Approach	1,414	21	0	1,435	1,067	14	0	1,081
Departure	798	18	(1)	815	1,798	14	(1)	1,811
Total	2,212	39	(1)	2,250	2,865	28	(1)	2,892
West Leg								
Approach	798	0	(17)	781	1,798	0	(21)	1,777
Departure	1,414	0	(24)	1,390	1,067	0	(13)	1,054
Total	2,212	0	(41)	2,171	2,865	0	(34)	2,831
Total Approaches								
Approach	2,212	39	(1)	2,250	2,865	28	(1)	2,892
Departure	2,212	39	(1)	2,250	2,865	28	(1)	2,892
Total	4,424	78	(2)	4,500	5,730	56	(2)	5,784

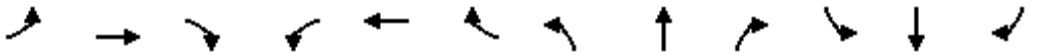
LSA

Table C-3 - Horizon Year (2045) Peak Hour Volume Summary

	AM Peak Hour				PM Peak Hour			
	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project	Horizon Year Without Project	Net Project Trips	Pass-by Trips	Horizon Year Plus Project
5 Benson Avenue/Foothill Boulevard								
NBL	92	4	0	96	113	3	0	116
NBT	312	0	0	312	587	0	0	587
NBR	124	0	0	124	192	0	0	192
SBL	152	0	0	152	173	0	0	173
SBT	571	0	0	571	483	0	0	483
SBR	288	5	0	293	171	2	0	173
EBL	121	4	0	125	359	3	0	362
EBT	513	12	0	525	1,287	9	0	1,296
EBR	72	3	0	75	123	2	0	125
WBL	156	0	0	156	168	0	0	168
WBT	964	13	0	977	778	8	0	786
WBR	174	0	0	174	164	0	0	164
North Leg								
Approach	1,011	5	0	1,016	827	2	0	829
Departure	607	4	0	611	1,110	3	0	1,113
Total	1,618	9	0	1,627	1,937	5	0	1,942
South Leg								
Approach	528	4	0	532	892	3	0	895
Departure	799	3	0	802	774	2	0	776
Total	1,327	7	0	1,334	1,666	5	0	1,671
East Leg								
Approach	1,294	13	0	1,307	1,110	8	0	1,118
Departure	789	12	0	801	1,652	9	0	1,661
Total	2,083	25	0	2,108	2,762	17	0	2,779
West Leg								
Approach	706	19	0	725	1,769	14	0	1,783
Departure	1,344	22	0	1,366	1,062	13	0	1,075
Total	2,050	41	0	2,091	2,831	27	0	2,858
Total Approaches								
Approach	3,539	41	0	3,580	4,598	27	0	4,625
Departure	3,539	41	0	3,580	4,598	27	0	4,625
Total	7,078	82	0	7,160	9,196	54	0	9,250

APPENDIX D

INTERSECTION LEVEL OF SERVICE WORKSHEETS



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	451	119	177	737	0	165	0	197	0	0	0
Future Volume (veh/h)	0	451	119	177	737	0	165	0	197	0	0	0
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	0	507	134	199	828	0	259	0	141	0	0	0
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	1	618	275	1855	2648	0	726	0	1174	0	2	0
Arrive On Green	0.00	0.17	0.17	0.53	0.73	0.00	0.20	0.00	0.20	0.00	0.00	0.00
Sat Flow, veh/h	1810	3610	1610	3510	3705	0	3619	0	1610	0	3800	0
Grp Volume(v), veh/h	0	507	134	199	828	0	259	0	141	0	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1755	1805	0	1810	0	1610	0	1805	0
Q Serve(g_s), s	0.0	21.0	11.7	4.4	12.3	0.0	9.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	21.0	11.7	4.4	12.3	0.0	9.6	0.0	0.0	0.0	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00		1.00	0.00		0.00
Lane Grp Cap(c), veh/h	1	618	275	1855	2648	0	726	0	1174	0	2	0
V/C Ratio(X)	0.00	0.82	0.49	0.11	0.31	0.00	0.36	0.00	0.12	0.00	0.00	0.00
Avail Cap(c_a), veh/h	187	1088	485	1855	2648	0	726	0	1174	0	652	0
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)	0.00	1.00	1.00	1.00	1.00	0.00	0.66	0.00	0.66	0.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	62.0	58.1	18.3	7.1	0.0	53.3	0.0	6.2	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.0	11.7	6.0	0.0	0.1	0.0	0.9	0.0	0.1	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	0.0	10.5	5.2	1.8	4.3	0.0	4.4	0.0	1.3	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	73.6	64.1	18.3	7.2	0.0	54.2	0.0	6.4	0.0	0.0	0.0
LnGrp LOS	A	E	E	B	A	A	D	A	A	A	A	A
Approach Vol, veh/h		641			1027			400			0	
Approach Delay, s/veh		71.6			9.4			37.4			0.0	
Approach LOS		E			A			D				

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	87.2	31.8		0.0	0.0	119.0		36.0				
Change Period (Y+Rc), s	5.3	* 5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	31.0	* 47		28.0	16.0	61.7		31.1				
Max Q Clear Time (g_c+I1), s	6.4	23.0		0.0	0.0	14.3		11.6				
Green Ext Time (p_c), s	0.5	3.5		0.0	0.0	6.2		0.9				

Intersection Summary		
HCM 6th Ctrl Delay		34.1
HCM 6th LOS		C

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	46	25	63	71	13	37	350	94	23	238	29
Future Volume (veh/h)	16	46	25	63	71	13	37	350	94	23	238	29
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	18	52	28	71	80	15	42	393	106	26	267	33
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	965	812	437	980	1088	204	55	503	134	33	600	267
Arrive On Green	0.70	0.70	0.70	0.70	0.70	0.70	0.03	0.18	0.18	0.02	0.17	0.17
Sat Flow, veh/h	1321	1162	626	1339	1556	292	1810	2818	752	1810	3610	1610
Grp Volume(v), veh/h	18	0	80	71	0	95	42	250	249	26	267	33
Grp Sat Flow(s),veh/h/ln	1321	0	1787	1339	0	1847	1810	1805	1765	1810	1805	1610
Q Serve(g_s), s	0.5	0.0	1.6	2.0	0.0	1.9	2.6	15.2	15.5	1.6	7.7	2.0
Cycle Q Clear(g_c), s	2.4	0.0	1.6	3.6	0.0	1.9	2.6	15.2	15.5	1.6	7.7	2.0
Prop In Lane	1.00		0.35	1.00		0.16	1.00		0.43	1.00		1.00
Lane Grp Cap(c), veh/h	965	0	1250	980	0	1292	55	322	315	33	600	267
V/C Ratio(X)	0.02	0.00	0.06	0.07	0.00	0.07	0.77	0.78	0.79	0.80	0.45	0.12
Avail Cap(c_a), veh/h	965	0	1250	980	0	1292	480	808	790	480	1617	721
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	0.95	0.95	0.95
Uniform Delay (d), s/veh	5.9	0.0	5.4	6.0	0.0	5.5	55.3	45.1	45.2	56.2	43.2	40.8
Incr Delay (d2), s/veh	0.0	0.0	0.1	0.1	0.0	0.1	19.5	4.1	4.5	32.4	0.5	0.2
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	0.6	0.6	0.0	0.7	1.5	7.0	7.0	1.0	3.4	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	5.9	0.0	5.5	6.2	0.0	5.6	74.8	49.1	49.6	88.7	43.7	41.0
LnGrp LOS	A	A	A	A	A	A	E	D	D	F	D	D
Approach Vol, veh/h		98			166			541			326	
Approach Delay, s/veh		5.6			5.8			51.4			47.0	
Approach LOS		A			A			D			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	84.4	7.0	23.6	84.4	5.6	25.0
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	30.5	51.5	21.0	30.5	51.5
Max Q Clear Time (g_c+I1), s	4.4	4.6	9.7	5.6	3.6	17.5
Green Ext Time (p_c), s	0.3	0.1	1.5	0.5	0.0	3.0

Intersection Summary	
HCM 6th Ctrl Delay	39.5
HCM 6th LOS	D

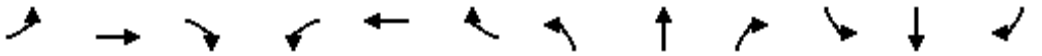
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	107	403	57	114	602	146	67	243	77	122	476	205
Future Volume (veh/h)	107	403	57	114	602	146	67	243	77	122	476	205
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	122	458	65	130	684	166	76	276	88	139	541	233
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	146	558	249	712	1721	768	96	594	185	163	630	271
Arrive On Green	0.08	0.15	0.15	0.39	0.48	0.48	0.05	0.22	0.22	0.09	0.26	0.26
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2708	845	1810	2459	1056
Grp Volume(v), veh/h	122	458	65	130	684	166	76	182	182	139	397	377
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1748	1810	1805	1710
Q Serve(g_s), s	9.3	17.2	4.3	6.6	17.1	8.4	5.8	12.3	12.7	10.6	29.3	29.5
Cycle Q Clear(g_c), s	9.3	17.2	4.3	6.6	17.1	8.4	5.8	12.3	12.7	10.6	29.3	29.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.48	1.00		0.62
Lane Grp Cap(c), veh/h	146	558	249	712	1721	768	96	396	383	163	463	438
V/C Ratio(X)	0.83	0.82	0.26	0.18	0.40	0.22	0.79	0.46	0.47	0.85	0.86	0.86
Avail Cap(c_a), veh/h	323	1307	583	712	1721	768	259	396	383	259	463	438
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	63.4	57.3	38.4	27.7	23.6	21.4	65.5	47.5	47.6	62.8	49.6	49.7
Incr Delay (d2), s/veh	4.7	12.7	2.5	0.1	0.7	0.6	5.3	3.8	4.2	8.4	18.2	19.4
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	4.4	8.7	2.2	2.8	7.2	3.3	2.8	5.9	5.9	5.2	15.2	14.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	68.1	70.0	40.9	27.8	24.3	22.0	70.8	51.3	51.8	71.2	67.9	69.1
LnGrp LOS	E	E	D	C	C	C	E	D	D	E	E	E
Approach Vol, veh/h		645			980			440			913	
Approach Delay, s/veh		66.7			24.4			54.9			68.9	
Approach LOS		E			C			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.4	27.0	11.5	41.2	15.3	72.1	16.6	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	19.6	19.2	7.8	31.5	11.3	19.1	12.6	14.7
Green Ext Time (p_c), s	0.2	2.5	0.1	0.0	0.1	2.8	0.1	1.4

Intersection Summary	
HCM 6th Ctrl Delay	51.7
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	1036	139	208	560	0	118	0	363	1	0	0
Future Volume (veh/h)	5	1036	139	208	560	0	118	0	363	1	0	0
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		0.97	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	5	1091	146	219	589	0	83	0	426	1	0	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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	58	2138	952	272	2301	0	363	0	876	22	22	0
Arrive On Green	0.03	0.59	0.59	0.08	0.64	0.00	0.20	0.00	0.20	0.01	0.00	0.00
Sat Flow, veh/h	1810	3610	1608	3510	3705	0	1810	0	3126	1810	1900	0
Grp Volume(v), veh/h	5	1091	146	219	589	0	83	0	426	1	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1608	1755	1805	0	1810	0	1563	1810	1805	0
Q Serve(g_s), s	0.4	27.4	6.3	9.5	11.0	0.0	6.0	0.0	17.7	0.1	0.0	0.0
Cycle Q Clear(g_c), s	0.4	27.4	6.3	9.5	11.0	0.0	6.0	0.0	17.7	0.1	0.0	0.0
Prop In Lane	1.00		1.00	1.00		0.00	1.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	58	2138	952	272	2301	0	363	0	876	22	22	0
V/C Ratio(X)	0.09	0.51	0.15	0.81	0.26	0.00	0.23	0.00	0.49	0.04	0.00	0.00
Avail Cap(c_a), veh/h	187	2138	952	702	2301	0	363	0	876	327	326	0
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	1.00	0.00	0.66	0.00	0.66	1.00	0.00	0.00
Uniform Delay (d), s/veh	72.8	18.5	14.2	70.4	12.2	0.0	51.9	0.0	46.8	75.6	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.9	0.3	4.2	0.1	0.0	1.0	0.0	1.3	0.8	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	11.2	2.3	4.4	4.3	0.0	2.8	0.0	7.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	73.0	19.3	14.5	74.6	12.2	0.0	52.9	0.0	48.0	76.4	0.0	0.0
LnGrp LOS	E	B	B	E	B	A	D	A	D	E	A	A
Approach Vol, veh/h		1242			808			509			1	
Approach Delay, s/veh		19.0			29.1			48.8			76.4	
Approach LOS		B			C			D			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	16.0	97.1		5.9	9.0	104.1		36.0				
Change Period (Y+Rc), s	4.0	5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	31.0	46.7		28.0	16.0	61.7		31.1				
Max Q Clear Time (g_c+I1), s	11.5	29.4		2.1	2.4	13.0		19.7				
Green Ext Time (p_c), s	0.5	7.2		0.0	0.0	4.0		1.2				

Intersection Summary		
HCM 6th Ctrl Delay		28.2
HCM 6th LOS		C

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	44	77	41	87	71	50	28	441	85	28	329	19
Future Volume (veh/h)	44	77	41	87	71	50	28	441	85	28	329	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	49	87	46	98	80	56	31	496	96	31	370	21
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	876	777	411	880	690	483	40	621	120	40	743	330
Arrive On Green	0.67	0.67	0.67	0.67	0.67	0.67	0.02	0.21	0.21	0.02	0.21	0.21
Sat Flow, veh/h	1272	1164	615	1275	1034	724	1810	3018	581	1810	3610	1602
Grp Volume(v), veh/h	49	0	133	98	0	136	31	296	296	31	370	21
Grp Sat Flow(s),veh/h/ln	1272	0	1779	1275	0	1758	1810	1805	1794	1810	1805	1602
Q Serve(g_s), s	1.7	0.0	3.1	3.4	0.0	3.2	2.0	17.9	18.1	2.0	10.4	1.2
Cycle Q Clear(g_c), s	4.9	0.0	3.1	6.5	0.0	3.2	2.0	17.9	18.1	2.0	10.4	1.2
Prop In Lane	1.00		0.35	1.00		0.41	1.00		0.32	1.00		1.00
Lane Grp Cap(c), veh/h	876	0	1188	880	0	1174	40	372	369	40	743	330
V/C Ratio(X)	0.06	0.00	0.11	0.11	0.00	0.12	0.78	0.80	0.80	0.78	0.50	0.06
Avail Cap(c_a), veh/h	876	0	1188	880	0	1174	480	808	803	480	1617	718
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	0.87	0.87	0.87
Uniform Delay (d), s/veh	7.8	0.0	6.9	8.0	0.0	6.9	56.0	43.4	43.4	56.0	40.4	36.7
Incr Delay (d2), s/veh	0.1	0.0	0.2	0.3	0.0	0.2	27.5	3.9	4.1	24.5	0.5	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	0.5	0.0	1.1	1.0	0.0	1.2	1.2	8.2	8.2	1.1	4.6	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	7.9	0.0	7.0	8.3	0.0	7.1	83.5	47.3	47.5	80.5	40.8	36.8
LnGrp LOS	A	A	A	A	A	A	F	D	D	F	D	D
Approach Vol, veh/h		182			234			623			422	
Approach Delay, s/veh		7.3			7.6			49.2			43.6	
Approach LOS		A			A			D			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	80.8	6.0	28.2	80.8	6.0	28.2
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	30.5	51.5	21.0	30.5	51.5
Max Q Clear Time (g_c+I1), s	6.9	4.0	12.4	8.5	4.0	20.1
Green Ext Time (p_c), s	0.7	0.0	2.3	0.8	0.0	3.6

Intersection Summary	
HCM 6th Ctrl Delay	35.7
HCM 6th LOS	D

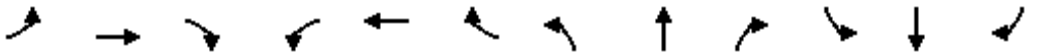
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	286	984	107	119	583	119	85	428	134	145	407	151
Future Volume (veh/h)	286	984	107	119	583	119	85	428	134	145	407	151
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	298	1025	111	124	607	124	89	446	140	151	424	157
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	320	1142	507	408	1351	594	111	594	185	175	659	242
Arrive On Green	0.18	0.32	0.32	0.23	0.37	0.37	0.06	0.22	0.22	0.10	0.25	0.25
Sat Flow, veh/h	1810	3610	1603	1810	3610	1587	1810	2709	843	1810	2586	948
Grp Volume(v), veh/h	298	1025	111	124	607	124	89	296	290	151	295	286
Grp Sat Flow(s),veh/h/ln	1810	1805	1603	1810	1805	1587	1810	1805	1747	1810	1805	1729
Q Serve(g_s), s	22.7	37.9	5.8	8.0	17.7	7.4	6.8	21.4	21.8	11.5	20.3	20.7
Cycle Q Clear(g_c), s	22.7	37.9	5.8	8.0	17.7	7.4	6.8	21.4	21.8	11.5	20.3	20.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.48	1.00		0.55
Lane Grp Cap(c), veh/h	320	1142	507	408	1351	594	111	396	383	175	460	441
V/C Ratio(X)	0.93	0.90	0.22	0.30	0.45	0.21	0.80	0.75	0.76	0.86	0.64	0.65
Avail Cap(c_a), veh/h	323	1307	580	408	1351	594	259	396	383	259	460	441
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	56.8	45.7	23.2	45.1	32.9	29.7	64.9	51.0	51.2	62.3	46.4	46.6
Incr Delay (d2), s/veh	32.2	11.1	1.0	0.4	1.1	0.8	5.0	12.2	13.1	12.5	6.7	7.2
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	18.0	18.3	2.9	3.6	7.8	3.0	3.3	10.9	10.8	5.8	9.8	9.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	89.0	56.8	24.2	45.5	34.0	30.5	69.9	63.2	64.3	74.8	53.1	53.8
LnGrp LOS	F	E	C	D	C	C	E	E	E	E	D	D
Approach Vol, veh/h		1434			855			675			732	
Approach Delay, s/veh		61.0			35.2			64.5			57.9	
Approach LOS		E			D			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	36.8	49.6	12.6	41.0	28.7	57.7	17.6	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	10.0	39.9	8.8	22.7	24.7	19.7	13.5	23.8
Green Ext Time (p_c), s	0.2	4.3	0.1	2.0	0.0	2.5	0.1	1.6

Intersection Summary	
HCM 6th Ctrl Delay	55.0
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	529	128	195	818	10	178	17	217	10	17	29
Future Volume (veh/h)	30	529	128	195	818	10	178	17	217	10	17	29
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	32	557	135	205	861	11	272	0	151	11	18	31
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	58	671	299	1603	2259	29	726	0	1059	22	36	50
Arrive On Green	0.03	0.19	0.19	0.46	0.62	0.62	0.20	0.00	0.20	0.03	0.03	0.03
Sat Flow, veh/h	1810	3610	1610	3510	3650	47	3619	0	1610	707	1157	1610
Grp Volume(v), veh/h	32	557	135	205	426	446	272	0	151	29	0	31
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1755	1805	1892	1810	0	1610	1865	0	1610
Q Serve(g_s), s	2.7	23.0	11.5	5.2	18.2	18.2	10.1	0.0	0.0	2.4	0.0	2.9
Cycle Q Clear(g_c), s	2.7	23.0	11.5	5.2	18.2	18.2	10.1	0.0	0.0	2.4	0.0	2.9
Prop In Lane	1.00		1.00	1.00		0.02	1.00		1.00	0.38		1.00
Lane Grp Cap(c), veh/h	58	671	299	1603	1117	1171	726	0	1059	58	0	50
V/C Ratio(X)	0.55	0.83	0.45	0.13	0.38	0.38	0.37	0.00	0.14	0.50	0.00	0.62
Avail Cap(c_a), veh/h	187	1088	485	1603	1117	1171	726	0	1059	337	0	291
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	1.00	1.00	0.63	0.00	0.63	1.00	0.00	1.00
Uniform Delay (d), s/veh	73.9	60.7	56.1	24.3	14.7	14.7	53.5	0.0	10.0	73.9	0.0	74.2
Incr Delay (d2), s/veh	3.0	11.4	4.8	0.0	0.2	0.2	0.9	0.0	0.2	6.7	0.0	12.1
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	1.3	11.4	5.0	2.2	7.2	7.6	4.7	0.0	2.0	1.2	0.0	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	76.8	72.1	60.9	24.3	15.0	14.9	54.5	0.0	10.2	80.6	0.0	86.3
LnGrp LOS	E	E	E	C	B	B	D	A	B	F	A	F
Approach Vol, veh/h		724			1077			423			60	
Approach Delay, s/veh		70.2			16.7			38.7			83.6	
Approach LOS		E			B			D			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	76.1	34.1		8.8	9.0	101.2		36.0				
Change Period (Y+Rc), s	5.3	* 5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	31.0	* 47		28.0	16.0	61.7		31.1				
Max Q Clear Time (g_c+I1), s	7.2	25.0		4.9	4.7	20.2		12.1				
Green Ext Time (p_c), s	0.5	3.8		0.2	0.0	5.6		1.0				

Intersection Summary		
HCM 6th Ctrl Delay		39.5
HCM 6th LOS		D

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	78	33	78	88	14	44	396	105	24	278	32
Future Volume (veh/h)	20	78	33	78	88	14	44	396	105	24	278	32
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	21	82	35	82	93	15	46	417	111	25	293	34
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	950	882	376	939	1114	180	61	510	134	31	593	264
Arrive On Green	0.70	0.70	0.70	0.70	0.70	0.70	0.03	0.18	0.18	0.02	0.16	0.16
Sat Flow, veh/h	1306	1264	539	1295	1596	257	1810	2826	745	1810	3610	1610
Grp Volume(v), veh/h	21	0	117	82	0	108	46	265	263	25	293	34
Grp Sat Flow(s),veh/h/ln	1306	0	1803	1295	0	1854	1810	1805	1766	1810	1805	1610
Q Serve(g_s), s	0.6	0.0	2.4	2.5	0.0	2.1	2.9	16.2	16.5	1.6	8.5	2.1
Cycle Q Clear(g_c), s	2.8	0.0	2.4	4.9	0.0	2.1	2.9	16.2	16.5	1.6	8.5	2.1
Prop In Lane	1.00		0.30	1.00		0.14	1.00		0.42	1.00		1.00
Lane Grp Cap(c), veh/h	950	0	1258	939	0	1294	61	326	318	31	593	264
V/C Ratio(X)	0.02	0.00	0.09	0.09	0.00	0.08	0.76	0.81	0.83	0.80	0.49	0.13
Avail Cap(c_a), veh/h	950	0	1258	939	0	1294	826	463	453	826	926	413
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	0.95	0.95	0.95
Uniform Delay (d), s/veh	6.0	0.0	5.6	6.4	0.0	5.6	55.1	45.3	45.4	56.3	43.7	41.0
Incr Delay (d2), s/veh	0.0	0.0	0.1	0.2	0.0	0.1	17.3	7.3	8.3	33.5	0.6	0.2
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	0.9	0.7	0.0	0.8	1.6	7.7	7.8	1.0	3.8	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	6.1	0.0	5.8	6.6	0.0	5.7	72.4	52.6	53.7	89.8	44.3	41.2
LnGrp LOS	A	A	A	A	A	A	E	D	D	F	D	D
Approach Vol, veh/h		138			190			574			352	
Approach Delay, s/veh		5.8			6.1			54.7			47.3	
Approach LOS		A			A			D			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	84.3	7.4	23.4	84.3	5.5	25.2
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	52.5	29.5	21.0	52.5	29.5
Max Q Clear Time (g_c+I1), s	4.8	4.9	10.5	6.9	3.6	18.5
Green Ext Time (p_c), s	0.5	0.1	1.4	0.6	0.0	2.2

Intersection Summary	
HCM 6th Ctrl Delay	39.9
HCM 6th LOS	D

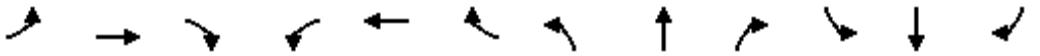
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	115	489	68	142	680	166	79	297	118	145	530	222
Future Volume (veh/h)	115	489	68	142	680	166	79	297	118	145	530	222
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	121	515	72	149	716	175	83	313	124	153	558	234
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	145	621	277	667	1695	756	104	557	216	177	644	269
Arrive On Green	0.08	0.17	0.17	0.37	0.47	0.47	0.06	0.22	0.22	0.10	0.26	0.26
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2541	986	1810	2481	1038
Grp Volume(v), veh/h	121	515	72	149	716	175	83	220	217	153	406	386
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1722	1810	1805	1713
Q Serve(g_s), s	9.2	19.3	4.6	7.9	18.4	9.1	6.3	15.2	15.7	11.7	30.0	30.2
Cycle Q Clear(g_c), s	9.2	19.3	4.6	7.9	18.4	9.1	6.3	15.2	15.7	11.7	30.0	30.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.57	1.00		0.61
Lane Grp Cap(c), veh/h	145	621	277	667	1695	756	104	396	378	177	469	445
V/C Ratio(X)	0.83	0.83	0.26	0.22	0.42	0.23	0.80	0.56	0.57	0.86	0.87	0.87
Avail Cap(c_a), veh/h	323	1307	583	667	1695	756	259	396	378	259	469	445
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	63.5	56.0	36.3	30.4	24.6	22.1	65.2	48.6	48.8	62.2	49.5	49.5
Incr Delay (d2), s/veh	4.7	12.2	2.3	0.2	0.8	0.7	5.1	5.6	6.2	13.1	18.8	20.0
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	4.4	9.6	2.3	3.4	7.8	3.5	3.0	7.4	7.3	5.9	15.7	15.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	68.1	68.2	38.6	30.6	25.3	22.8	70.3	54.2	55.0	75.3	68.3	69.5
LnGrp LOS	E	E	D	C	C	C	E	D	E	E	E	E
Approach Vol, veh/h		708			1040			520			945	
Approach Delay, s/veh		65.2			25.7			57.1			70.0	
Approach LOS		E			C			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.9	29.4	12.1	41.7	15.2	71.0	17.7	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	11.2	21.3	8.3	32.2	11.2	20.4	13.7	17.7
Green Ext Time (p_c), s	0.2	2.8	0.1	0.0	0.1	2.9	0.1	1.6

Intersection Summary	
HCM 6th Ctrl Delay	52.5
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	1127	151	228	646	13	127	21	391	8	12	20
Future Volume (veh/h)	43	1127	151	228	646	13	127	21	391	8	12	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		0.98	1.00		0.97	1.00		0.96
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	45	1186	159	240	680	14	97	0	467	8	13	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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	68	2029	904	293	2198	45	363	0	896	26	42	56
Arrive On Green	0.04	0.56	0.56	0.08	0.61	0.61	0.20	0.00	0.20	0.04	0.04	0.04
Sat Flow, veh/h	1810	3610	1608	3510	3615	74	1810	0	3126	710	1154	1542
Grp Volume(v), veh/h	45	1186	159	240	339	355	97	0	467	21	0	21
Grp Sat Flow(s),veh/h/ln	1810	1805	1608	1755	1805	1885	1810	0	1563	1864	0	1542
Q Serve(g_s), s	3.8	33.2	7.5	10.4	14.1	14.1	7.0	0.0	19.5	1.7	0.0	2.1
Cycle Q Clear(g_c), s	3.8	33.2	7.5	10.4	14.1	14.1	7.0	0.0	19.5	1.7	0.0	2.1
Prop In Lane	1.00		1.00	1.00		0.04	1.00		1.00	0.38		1.00
Lane Grp Cap(c), veh/h	68	2029	904	293	1097	1146	363	0	896	68	0	56
V/C Ratio(X)	0.66	0.58	0.18	0.82	0.31	0.31	0.27	0.00	0.52	0.31	0.00	0.37
Avail Cap(c_a), veh/h	187	2029	904	702	1097	1146	363	0	896	337	0	279
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	1.00	1.00	0.63	0.00	0.63	1.00	0.00	1.00
Uniform Delay (d), s/veh	73.6	22.1	16.5	69.9	14.7	14.7	52.3	0.0	46.7	72.8	0.0	73.0
Incr Delay (d2), s/veh	4.0	1.2	0.4	4.2	0.2	0.2	1.1	0.0	1.4	2.6	0.0	4.1
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	1.8	13.8	2.8	4.8	5.6	5.9	3.3	0.0	7.7	0.9	0.0	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.7	23.4	16.9	74.1	14.8	14.8	53.5	0.0	48.0	75.3	0.0	77.1
LnGrp LOS	E	C	B	E	B	B	D	A	D	E	A	E
Approach Vol, veh/h		1390			934			564			42	
Approach Delay, s/veh		24.4			30.0			49.0			76.2	
Approach LOS		C			C			D			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	17.0	92.4		9.6	9.8	99.5		36.0				
Change Period (Y+Rc), s	4.0	5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	31.0	46.7		28.0	16.0	61.7		31.1				
Max Q Clear Time (g_c+I1), s	12.4	35.2		4.1	5.8	16.1		21.5				
Green Ext Time (p_c), s	0.5	6.2		0.1	0.0	4.2		1.3				

Intersection Summary			
HCM 6th Ctrl Delay		31.7	
HCM 6th LOS		C	

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	49	102	51	103	103	52	33	494	94	29	369	23
Future Volume (veh/h)	49	102	51	103	103	52	33	494	94	29	369	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	52	107	54	108	108	55	35	520	99	31	388	24
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	845	787	397	847	785	400	45	633	120	40	743	330
Arrive On Green	0.66	0.66	0.66	0.66	0.66	0.66	0.03	0.21	0.21	0.02	0.21	0.21
Sat Flow, veh/h	1241	1185	598	1243	1180	601	1810	3026	574	1810	3610	1602
Grp Volume(v), veh/h	52	0	161	108	0	163	35	309	310	31	388	24
Grp Sat Flow(s),veh/h/ln	1241	0	1782	1243	0	1782	1810	1805	1795	1810	1805	1602
Q Serve(g_s), s	1.9	0.0	3.8	4.0	0.0	3.9	2.2	18.8	19.0	2.0	11.0	1.4
Cycle Q Clear(g_c), s	5.7	0.0	3.8	7.9	0.0	3.9	2.2	18.8	19.0	2.0	11.0	1.4
Prop In Lane	1.00		0.34	1.00		0.34	1.00		0.32	1.00		1.00
Lane Grp Cap(c), veh/h	845	0	1185	847	0	1184	45	377	375	40	743	330
V/C Ratio(X)	0.06	0.00	0.14	0.13	0.00	0.14	0.77	0.82	0.83	0.78	0.52	0.07
Avail Cap(c_a), veh/h	845	0	1185	847	0	1184	732	557	554	732	1114	495
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	0.87	0.87	0.87
Uniform Delay (d), s/veh	8.2	0.0	7.1	8.6	0.0	7.1	55.7	43.4	43.5	56.0	40.6	36.8
Incr Delay (d2), s/veh	0.1	0.0	0.2	0.3	0.0	0.2	23.5	6.1	6.5	24.1	0.5	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	0.5	0.0	1.4	1.1	0.0	1.4	1.3	8.8	8.9	1.1	4.8	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.3	0.0	7.3	8.9	0.0	7.4	79.3	49.5	50.0	80.1	41.1	36.9
LnGrp LOS	A	A	A	A	A	A	E	D	D	F	D	D
Approach Vol, veh/h		213			271			654			443	
Approach Delay, s/veh		7.6			8.0			51.3			43.6	
Approach LOS		A			A			D			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	80.4	6.4	28.2	80.4	6.0	28.5
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	46.5	35.5	21.0	46.5	35.5
Max Q Clear Time (g_c+I1), s	7.7	4.2	13.0	9.9	4.0	21.0
Green Ext Time (p_c), s	0.8	0.1	2.2	0.9	0.1	3.1

Intersection Summary	
HCM 6th Ctrl Delay	35.8
HCM 6th LOS	D

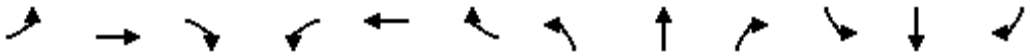
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	306	1073	117	160	679	144	97	483	165	165	460	163
Future Volume (veh/h)	306	1073	117	160	679	144	97	483	165	165	460	163
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	319	1118	122	167	707	150	101	503	172	172	479	170
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	323	1218	541	349	1303	573	124	580	197	196	678	239
Arrive On Green	0.18	0.34	0.34	0.19	0.36	0.36	0.07	0.22	0.22	0.11	0.26	0.26
Sat Flow, veh/h	1810	3610	1603	1810	3610	1587	1810	2643	899	1810	2617	922
Grp Volume(v), veh/h	319	1118	122	167	707	150	101	343	332	172	329	320
Grp Sat Flow(s),veh/h/ln	1810	1805	1603	1810	1805	1587	1810	1805	1737	1810	1805	1734
Q Serve(g_s), s	24.6	41.6	6.1	11.5	21.8	9.3	7.7	25.6	25.9	13.1	23.2	23.4
Cycle Q Clear(g_c), s	24.6	41.6	6.1	11.5	21.8	9.3	7.7	25.6	25.9	13.1	23.2	23.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.52	1.00		0.53
Lane Grp Cap(c), veh/h	323	1218	541	349	1303	573	124	396	381	196	468	450
V/C Ratio(X)	0.99	0.92	0.23	0.48	0.54	0.26	0.81	0.87	0.87	0.88	0.70	0.71
Avail Cap(c_a), veh/h	323	1307	581	349	1303	573	259	396	381	259	468	450
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.3	44.5	21.1	50.3	35.6	31.6	64.3	52.7	52.8	61.5	47.0	47.1
Incr Delay (d2), s/veh	46.4	12.4	1.0	1.0	1.6	1.1	4.8	21.6	23.1	18.7	8.6	9.2
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	15.1	20.1	3.0	5.2	9.6	3.7	3.7	13.8	13.5	6.9	11.3	11.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	103.7	56.9	22.1	51.3	37.2	32.7	69.2	74.3	75.9	80.2	55.6	56.3
LnGrp LOS	F	E	C	D	D	C	E	E	E	F	E	E
Approach Vol, veh/h		1559			1024			776			821	
Approach Delay, s/veh		63.8			38.8			74.3			61.0	
Approach LOS		E			D			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.3	52.5	13.6	41.6	29.0	55.8	19.2	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	13.5	43.6	9.7	25.4	26.6	23.8	15.1	27.9
Green Ext Time (p_c), s	0.2	3.6	0.1	1.7	0.0	2.9	0.1	1.0

Intersection Summary	
HCM 6th Ctrl Delay	59.1
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	543	128	213	830	10	178	17	240	10	17	29
Future Volume (veh/h)	30	543	128	213	830	10	178	17	240	10	17	29
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	32	572	135	224	874	11	283	0	164	11	18	31
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	58	685	305	1568	2236	28	749	0	1053	22	36	50
Arrive On Green	0.03	0.19	0.19	0.45	0.61	0.61	0.21	0.00	0.21	0.03	0.03	0.03
Sat Flow, veh/h	1810	3610	1610	3510	3651	46	3619	0	1610	707	1157	1610
Grp Volume(v), veh/h	32	572	135	224	432	453	283	0	164	29	0	31
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1755	1805	1892	1810	0	1610	1865	0	1610
Q Serve(g_s), s	2.7	23.6	11.5	5.8	18.9	18.9	10.4	0.0	0.0	2.4	0.0	2.9
Cycle Q Clear(g_c), s	2.7	23.6	11.5	5.8	18.9	18.9	10.4	0.0	0.0	2.4	0.0	2.9
Prop In Lane	1.00		1.00	1.00		0.02	1.00		1.00	0.38		1.00
Lane Grp Cap(c), veh/h	58	685	305	1568	1105	1159	749	0	1053	57	0	50
V/C Ratio(X)	0.55	0.84	0.44	0.14	0.39	0.39	0.38	0.00	0.16	0.50	0.00	0.62
Avail Cap(c_a), veh/h	187	1041	464	1568	1105	1159	749	0	1053	325	0	280
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	1.00	1.00	0.63	0.00	0.63	1.00	0.00	1.00
Uniform Delay (d), s/veh	73.9	60.5	55.5	25.4	15.3	15.3	52.9	0.0	10.4	73.9	0.0	74.2
Incr Delay (d2), s/veh	3.0	11.5	4.6	0.0	0.2	0.2	0.9	0.0	0.2	6.7	0.0	12.2
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	1.3	11.7	5.0	2.4	7.5	7.9	4.8	0.0	2.2	1.2	0.0	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	76.8	72.0	60.1	25.4	15.5	15.5	53.8	0.0	10.5	80.6	0.0	86.4
LnGrp LOS	E	E	E	C	B	B	D	A	B	F	A	F
Approach Vol, veh/h		739			1109			447			60	
Approach Delay, s/veh		70.0			17.5			37.9			83.6	
Approach LOS		E			B			D			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	74.5	34.7		8.8	9.0	100.2		37.0				
Change Period (Y+Rc), s	5.3	* 5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	33.0	* 45		27.0	16.0	61.7		32.1				
Max Q Clear Time (g_c+I1), s	7.8	25.6		4.9	4.7	20.9		12.4				
Green Ext Time (p_c), s	0.5	3.8		0.2	0.0	5.7		1.1				

Intersection Summary		
HCM 6th Ctrl Delay		39.6
HCM 6th LOS		D

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	78	33	78	88	14	44	419	105	24	296	32
Future Volume (veh/h)	20	78	33	78	88	14	44	419	105	24	296	32
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	21	82	35	82	93	15	46	441	111	25	312	34
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	941	874	373	931	1104	178	61	534	133	31	616	275
Arrive On Green	0.69	0.69	0.69	0.69	0.69	0.69	0.03	0.19	0.19	0.02	0.17	0.17
Sat Flow, veh/h	1306	1264	539	1295	1596	257	1810	2862	715	1810	3610	1610
Grp Volume(v), veh/h	21	0	117	82	0	108	46	277	275	25	312	34
Grp Sat Flow(s),veh/h/ln	1306	0	1803	1295	0	1854	1810	1805	1771	1810	1805	1610
Q Serve(g_s), s	0.6	0.0	2.5	2.6	0.0	2.2	2.9	16.9	17.2	1.6	9.0	2.1
Cycle Q Clear(g_c), s	2.8	0.0	2.5	5.0	0.0	2.2	2.9	16.9	17.2	1.6	9.0	2.1
Prop In Lane	1.00		0.30	1.00		0.14	1.00		0.40	1.00		1.00
Lane Grp Cap(c), veh/h	941	0	1247	931	0	1282	61	337	331	31	616	275
V/C Ratio(X)	0.02	0.00	0.09	0.09	0.00	0.08	0.76	0.82	0.83	0.80	0.51	0.12
Avail Cap(c_a), veh/h	941	0	1247	931	0	1282	826	463	454	826	926	413
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	0.95	0.95	0.95
Uniform Delay (d), s/veh	6.3	0.0	5.9	6.7	0.0	5.8	55.1	44.9	45.0	56.3	43.3	40.4
Incr Delay (d2), s/veh	0.0	0.0	0.1	0.2	0.0	0.1	17.3	8.2	9.2	33.5	0.6	0.2
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	0.9	0.7	0.0	0.8	1.6	8.2	8.2	1.0	4.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	6.3	0.0	6.0	6.9	0.0	5.9	72.4	53.2	54.2	89.8	43.9	40.6
LnGrp LOS	A	A	A	A	A	A	E	D	D	F	D	D
Approach Vol, veh/h		138			190			598			371	
Approach Delay, s/veh		6.0			6.3			55.1			46.7	
Approach LOS		A			A			E			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	83.5	7.4	24.1	83.5	5.5	26.0
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	52.5	29.5	21.0	52.5	29.5
Max Q Clear Time (g_c+I1), s	4.8	4.9	11.0	7.0	3.6	19.2
Green Ext Time (p_c), s	0.5	0.1	1.5	0.6	0.0	2.3

Intersection Summary	
HCM 6th Ctrl Delay	40.3
HCM 6th LOS	D

Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	732	53	0	1005	52	0
Future Vol, veh/h	732	53	0	1005	52	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	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	771	56	0	1058	55	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	827	0	1328	414
Stage 1	-	-	-	-	799	-
Stage 2	-	-	-	-	529	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	*1182	-	*149	*787
Stage 1	-	-	-	-	*742	-
Stage 2	-	-	-	-	*649	-
Platoon blocked, %	-	-	1	-		1
Mov Cap-1 Maneuver	-	-	*1182	-	*149	*787
Mov Cap-2 Maneuver	-	-	-	-	*384	-
Stage 1	-	-	-	-	*742	-
Stage 2	-	-	-	-	*649	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	15.9
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	384	-	-	* 1182	-
HCM Lane V/C Ratio	0.143	-	-	-	-
HCM Control Delay (s)	15.9	-	-	0	-
HCM Lane LOS	C	-	-	A	-
HCM 95th %tile Q(veh)	0.5	-	-	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	0.4

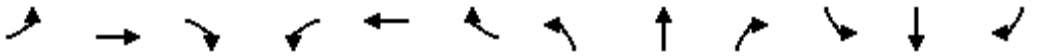
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	743	0	45	1032	0	34
Future Vol, veh/h	743	0	45	1032	0	34
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	782	0	47	1086	0	36

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	782	0	1419	391
Stage 1	-	-	-	-	782	-
Stage 2	-	-	-	-	637	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	*1182	-	*130	*787
Stage 1	-	-	-	-	*742	-
Stage 2	-	-	-	-	*629	-
Platoon blocked, %	-	-	1	-		1
Mov Cap-1 Maneuver	-	-	*1182	-	*125	*787
Mov Cap-2 Maneuver	-	-	-	-	*360	-
Stage 1	-	-	-	-	*742	-
Stage 2	-	-	-	-	*603	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.3	9.8
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	787	-	-	* 1182	-
HCM Lane V/C Ratio	0.045	-	-	0.04	-
HCM Control Delay (s)	9.8	-	-	8.2	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



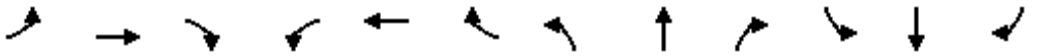
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	119	501	71	142	693	166	83	297	118	145	530	227
Future Volume (veh/h)	119	501	71	142	693	166	83	297	118	145	530	227
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	125	527	75	149	729	175	87	313	124	153	558	239
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	149	634	283	660	1687	752	109	557	216	177	634	271
Arrive On Green	0.08	0.18	0.18	0.36	0.47	0.47	0.06	0.22	0.22	0.10	0.26	0.26
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2541	986	1810	2463	1052
Grp Volume(v), veh/h	125	527	75	149	729	175	87	220	217	153	409	388
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1722	1810	1805	1711
Q Serve(g_s), s	9.5	19.7	4.8	8.0	18.9	9.1	6.6	15.2	15.7	11.7	30.4	30.6
Cycle Q Clear(g_c), s	9.5	19.7	4.8	8.0	18.9	9.1	6.6	15.2	15.7	11.7	30.4	30.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.57	1.00		0.62
Lane Grp Cap(c), veh/h	149	634	283	660	1687	752	109	396	378	177	464	440
V/C Ratio(X)	0.84	0.83	0.27	0.23	0.43	0.23	0.80	0.56	0.57	0.86	0.88	0.88
Avail Cap(c_a), veh/h	323	1307	583	660	1687	752	259	396	378	259	464	440
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	63.3	55.7	35.8	30.8	24.9	22.3	65.0	48.6	48.8	62.2	49.9	50.0
Incr Delay (d2), s/veh	4.7	12.1	2.3	0.2	0.8	0.7	5.0	5.6	6.2	13.1	20.6	21.8
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	4.5	9.9	2.4	3.5	8.0	3.6	3.2	7.4	7.3	5.9	16.0	15.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	68.0	67.8	38.0	30.9	25.7	23.0	70.0	54.2	55.0	75.3	70.5	71.8
LnGrp LOS	E	E	D	C	C	C	E	D	E	E	E	E
Approach Vol, veh/h		727			1053			524			950	
Approach Delay, s/veh		64.7			26.0			57.1			71.8	
Approach LOS		E			C			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	56.4	29.9	12.4	41.3	15.6	70.7	17.7	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	10.0	21.7	8.6	32.6	11.5	20.9	13.7	17.7
Green Ext Time (p_c), s	0.2	2.9	0.1	0.0	0.1	3.0	0.1	1.6

Intersection Summary	
HCM 6th Ctrl Delay	53.0
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	1137	151	243	656	13	127	21	408	8	12	20
Future Volume (veh/h)	43	1137	151	243	656	13	127	21	408	8	12	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		0.98	1.00		0.97	1.00		0.96
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	45	1197	159	256	691	14	97	0	484	8	13	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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	68	2012	896	310	2199	45	363	0	911	26	42	56
Arrive On Green	0.04	0.56	0.56	0.09	0.61	0.61	0.20	0.00	0.20	0.04	0.04	0.04
Sat Flow, veh/h	1810	3610	1608	3510	3617	73	1810	0	3126	710	1154	1542
Grp Volume(v), veh/h	45	1197	159	256	345	360	97	0	484	21	0	21
Grp Sat Flow(s),veh/h/ln	1810	1805	1608	1755	1805	1885	1810	0	1563	1864	0	1542
Q Serve(g_s), s	3.8	34.0	7.5	11.1	14.3	14.4	7.0	0.0	20.2	1.7	0.0	2.1
Cycle Q Clear(g_c), s	3.8	34.0	7.5	11.1	14.3	14.4	7.0	0.0	20.2	1.7	0.0	2.1
Prop In Lane	1.00		1.00	1.00		0.04	1.00		1.00	0.38		1.00
Lane Grp Cap(c), veh/h	68	2012	896	310	1097	1146	363	0	911	68	0	56
V/C Ratio(X)	0.66	0.59	0.18	0.83	0.31	0.31	0.27	0.00	0.53	0.31	0.00	0.37
Avail Cap(c_a), veh/h	187	2012	896	702	1097	1146	363	0	911	337	0	279
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	1.00	1.00	0.62	0.00	0.62	1.00	0.00	1.00
Uniform Delay (d), s/veh	73.6	22.7	16.9	69.5	14.7	14.7	52.3	0.0	46.4	72.8	0.0	73.0
Incr Delay (d2), s/veh	4.0	1.3	0.4	4.2	0.2	0.2	1.1	0.0	1.4	2.6	0.0	4.1
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	1.8	14.2	2.8	5.1	5.7	6.0	3.3	0.0	8.0	0.9	0.0	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.7	24.0	17.3	73.7	14.9	14.9	53.4	0.0	47.7	75.3	0.0	77.1
LnGrp LOS	E	C	B	E	B	B	D	A	D	E	A	E
Approach Vol, veh/h		1401			961			581			42	
Approach Delay, s/veh		25.0			30.5			48.7			76.2	
Approach LOS		C			C			D			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	17.7	91.7		9.6	9.8	99.5		36.0				
Change Period (Y+Rc), s	4.0	5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	31.0	46.7		28.0	16.0	61.7		31.1				
Max Q Clear Time (g_c+I1), s	13.1	36.0		4.1	5.8	16.4		22.2				
Green Ext Time (p_c), s	0.6	5.9		0.1	0.0	4.3		1.3				

Intersection Summary		
HCM 6th Ctrl Delay		32.1
HCM 6th LOS		C

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	49	102	51	103	103	52	33	511	94	29	384	23
Future Volume (veh/h)	49	102	51	103	103	52	33	511	94	29	384	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	52	107	54	108	108	55	35	538	99	31	404	24
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	839	781	394	841	779	397	45	651	119	40	761	338
Arrive On Green	0.66	0.66	0.66	0.66	0.66	0.66	0.03	0.21	0.21	0.02	0.21	0.21
Sat Flow, veh/h	1241	1185	598	1243	1180	601	1810	3045	558	1810	3610	1603
Grp Volume(v), veh/h	52	0	161	108	0	163	35	318	319	31	404	24
Grp Sat Flow(s),veh/h/ln	1241	0	1782	1243	0	1782	1810	1805	1798	1810	1805	1603
Q Serve(g_s), s	1.9	0.0	3.9	4.1	0.0	3.9	2.2	19.3	19.5	2.0	11.4	1.4
Cycle Q Clear(g_c), s	5.8	0.0	3.9	8.0	0.0	3.9	2.2	19.3	19.5	2.0	11.4	1.4
Prop In Lane	1.00		0.34	1.00		0.34	1.00		0.31	1.00		1.00
Lane Grp Cap(c), veh/h	839	0	1176	841	0	1175	45	386	385	40	761	338
V/C Ratio(X)	0.06	0.00	0.14	0.13	0.00	0.14	0.77	0.82	0.83	0.78	0.53	0.07
Avail Cap(c_a), veh/h	839	0	1176	841	0	1175	732	557	555	732	1114	495
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	0.86	0.86	0.86
Uniform Delay (d), s/veh	8.4	0.0	7.3	8.8	0.0	7.3	55.7	43.1	43.2	56.0	40.3	36.4
Incr Delay (d2), s/veh	0.1	0.0	0.2	0.3	0.0	0.2	23.5	6.6	6.9	23.9	0.5	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	0.5	0.0	1.5	1.1	0.0	1.5	1.3	9.1	9.2	1.1	5.0	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.6	0.0	7.6	9.1	0.0	7.6	79.3	49.7	50.1	79.9	40.8	36.4
LnGrp LOS	A	A	A	A	A	A	E	D	D	E	D	D
Approach Vol, veh/h		213			271			672			459	
Approach Delay, s/veh		7.8			8.2			51.4			43.2	
Approach LOS		A			A			D			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	79.9	6.4	28.7	79.9	6.0	29.1
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	46.5	35.5	21.0	46.5	35.5
Max Q Clear Time (g_c+I1), s	7.8	4.2	13.4	10.0	4.0	21.5
Green Ext Time (p_c), s	0.8	0.1	2.3	0.9	0.1	3.1

Intersection Summary	
HCM 6th Ctrl Delay	36.1
HCM 6th LOS	D

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1526	48	0	927	35	0
Future Vol, veh/h	1526	48	0	927	35	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	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1606	51	0	976	37	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1657	0	2120	829
Stage 1	-	-	-	-	1632	-
Stage 2	-	-	-	-	488	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	*674	-	*44	*449
Stage 1	-	-	-	-	*424	-
Stage 2	-	-	-	-	*670	-
Platoon blocked, %	-	-	1	-		1
Mov Cap-1 Maneuver	-	-	*674	-	*44	*449
Mov Cap-2 Maneuver	-	-	-	-	*256	-
Stage 1	-	-	-	-	*424	-
Stage 2	-	-	-	-	*670	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	21.4
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	256	-	-	* 674	-
HCM Lane V/C Ratio	0.144	-	-	-	-
HCM Control Delay (s)	21.4	-	-	0	-
HCM Lane LOS	C	-	-	A	-
HCM 95th %tile Q(veh)	0.5	-	-	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	0.3

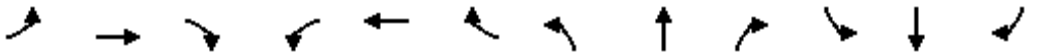
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1542	0	27	949	0	34
Future Vol, veh/h	1542	0	27	949	0	34
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1623	0	28	999	0	36

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1623	0	2179	812
Stage 1	-	-	-	-	1623	-
Stage 2	-	-	-	-	556	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	*644	-	*40	*429
Stage 1	-	-	-	-	*405	-
Stage 2	-	-	-	-	*670	-
Platoon blocked, %	-	-	1	-		1
Mov Cap-1 Maneuver	-	-	*644	-	*38	*429
Mov Cap-2 Maneuver	-	-	-	-	*243	-
Stage 1	-	-	-	-	*405	-
Stage 2	-	-	-	-	*641	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.3	14.2
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	429	-	-	* 644	-
HCM Lane V/C Ratio	0.083	-	-	0.044	-
HCM Control Delay (s)	14.2	-	-	10.8	-
HCM Lane LOS	B	-	-	B	-
HCM 95th %tile Q(veh)	0.3	-	-	0.1	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



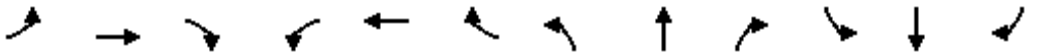
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	309	1082	119	160	687	144	100	483	165	165	460	165
Future Volume (veh/h)	309	1082	119	160	687	144	100	483	165	165	460	165
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	322	1127	124	167	716	150	104	503	172	172	479	172
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	323	1225	544	345	1303	573	127	580	197	196	671	239
Arrive On Green	0.18	0.34	0.34	0.19	0.36	0.36	0.07	0.22	0.22	0.11	0.26	0.26
Sat Flow, veh/h	1810	3610	1603	1810	3610	1587	1810	2643	899	1810	2608	930
Grp Volume(v), veh/h	322	1127	124	167	716	150	104	343	332	172	331	320
Grp Sat Flow(s),veh/h/ln	1810	1805	1603	1810	1805	1587	1810	1805	1737	1810	1805	1733
Q Serve(g_s), s	24.9	42.0	6.2	11.5	22.1	9.3	7.9	25.6	25.9	13.1	23.3	23.6
Cycle Q Clear(g_c), s	24.9	42.0	6.2	11.5	22.1	9.3	7.9	25.6	25.9	13.1	23.3	23.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.52	1.00		0.54
Lane Grp Cap(c), veh/h	323	1225	544	345	1303	573	127	396	381	196	465	446
V/C Ratio(X)	1.00	0.92	0.23	0.48	0.55	0.26	0.82	0.87	0.87	0.88	0.71	0.72
Avail Cap(c_a), veh/h	323	1307	581	345	1303	573	259	396	381	259	465	446
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.5	44.4	20.8	50.5	35.7	31.6	64.2	52.7	52.8	61.5	47.2	47.4
Incr Delay (d2), s/veh	49.0	12.6	1.0	1.0	1.7	1.1	4.8	21.6	23.1	18.7	8.9	9.6
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	15.5	20.3	3.1	5.2	9.8	3.7	3.8	13.8	13.5	6.9	11.4	11.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	106.5	57.0	21.8	51.5	37.3	32.7	69.0	74.3	75.9	80.2	56.2	56.9
LnGrp LOS	F	E	C	D	D	C	E	E	E	F	E	E
Approach Vol, veh/h		1573			1033			779			823	
Approach Delay, s/veh		64.4			39.0			74.2			61.5	
Approach LOS		E			D			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	32.0	52.8	13.8	41.3	29.0	55.8	19.2	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	13.5	44.0	9.9	25.6	26.9	24.1	15.1	27.9
Green Ext Time (p_c), s	0.2	3.5	0.1	1.7	0.0	3.0	0.1	1.0

Intersection Summary	
HCM 6th Ctrl Delay	59.4
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	32	555	171	205	1148	11	287	18	228	11	18	30
Future Volume (veh/h)	32	555	171	205	1148	11	287	18	228	11	18	30
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	34	584	180	216	1208	12	384	0	166	12	19	32
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	58	686	306	1586	2263	22	726	0	1050	23	36	51
Arrive On Green	0.03	0.19	0.19	0.45	0.62	0.62	0.20	0.00	0.20	0.03	0.03	0.03
Sat Flow, veh/h	1810	3610	1610	3510	3662	36	3619	0	1610	722	1142	1610
Grp Volume(v), veh/h	34	584	180	216	595	625	384	0	166	31	0	32
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1755	1805	1893	1810	0	1610	1864	0	1610
Q Serve(g_s), s	2.9	24.2	15.8	5.6	29.2	29.2	14.7	0.0	0.0	2.5	0.0	3.0
Cycle Q Clear(g_c), s	2.9	24.2	15.8	5.6	29.2	29.2	14.7	0.0	0.0	2.5	0.0	3.0
Prop In Lane	1.00		1.00	1.00		0.02	1.00		1.00	0.39		1.00
Lane Grp Cap(c), veh/h	58	686	306	1586	1115	1170	726	0	1050	59	0	51
V/C Ratio(X)	0.58	0.85	0.59	0.14	0.53	0.53	0.53	0.00	0.16	0.52	0.00	0.62
Avail Cap(c_a), veh/h	187	878	392	1586	1115	1170	726	0	1050	337	0	291
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	1.00	1.00	0.54	0.00	0.54	1.00	0.00	1.00
Uniform Delay (d), s/veh	74.0	60.7	57.2	24.8	16.9	16.9	55.4	0.0	10.4	73.9	0.0	74.1
Incr Delay (d2), s/veh	3.4	12.6	8.1	0.0	0.5	0.5	1.5	0.0	0.2	7.0	0.0	11.8
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	1.4	12.1	7.0	2.3	11.6	12.2	6.8	0.0	2.2	1.3	0.0	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.4	73.3	65.3	24.9	17.4	17.4	56.9	0.0	10.6	80.8	0.0	85.9
LnGrp LOS	E	E	E	C	B	B	E	A	B	F	A	F
Approach Vol, veh/h		798			1436			550			63	
Approach Delay, s/veh		71.7			18.5			42.9			83.4	
Approach LOS		E			B			D			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	75.3	34.8		8.9	9.0	101.1		36.0				
Change Period (Y+Rc), s	5.3	* 5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	40.0	* 38		28.0	16.0	61.7		31.1				
Max Q Clear Time (g_c+I1), s	7.6	26.2		5.0	4.9	31.2		16.7				
Green Ext Time (p_c), s	0.5	3.2		0.2	0.0	8.7		1.3				

Intersection Summary		
HCM 6th Ctrl Delay		39.6
HCM 6th LOS		D

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	95	35	83	129	21	55	463	205	49	292	42
Future Volume (veh/h)	21	95	35	83	129	21	55	463	205	49	292	42
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	22	100	37	87	136	22	58	487	216	52	307	44
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	805	833	308	825	1004	162	77	556	245	69	807	360
Arrive On Green	0.63	0.63	0.63	0.63	0.63	0.63	0.04	0.23	0.23	0.04	0.22	0.22
Sat Flow, veh/h	1248	1323	489	1272	1595	258	1810	2437	1075	1810	3610	1610
Grp Volume(v), veh/h	22	0	137	87	0	158	58	360	343	52	307	44
Grp Sat Flow(s),veh/h/ln	1248	0	1812	1272	0	1854	1810	1805	1707	1810	1805	1610
Q Serve(g_s), s	0.8	0.0	3.5	3.4	0.0	4.0	3.6	22.1	22.3	3.3	8.3	2.5
Cycle Q Clear(g_c), s	4.8	0.0	3.5	6.9	0.0	4.0	3.6	22.1	22.3	3.3	8.3	2.5
Prop In Lane	1.00		0.27	1.00		0.14	1.00		0.63	1.00		1.00
Lane Grp Cap(c), veh/h	805	0	1141	825	0	1167	77	412	389	69	807	360
V/C Ratio(X)	0.03	0.00	0.12	0.11	0.00	0.14	0.76	0.87	0.88	0.76	0.38	0.12
Avail Cap(c_a), veh/h	805	0	1141	825	0	1167	826	463	438	826	926	413
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	0.95	0.95	0.95
Uniform Delay (d), s/veh	9.6	0.0	8.5	9.9	0.0	8.6	54.5	42.8	42.9	54.8	37.9	35.6
Incr Delay (d2), s/veh	0.1	0.0	0.2	0.3	0.0	0.2	13.9	15.6	17.2	14.6	0.3	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	0.2	0.0	1.4	1.0	0.0	1.6	1.9	11.4	11.0	1.7	3.6	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	9.7	0.0	8.8	10.2	0.0	8.9	68.3	58.4	60.1	69.4	38.2	35.8
LnGrp LOS	A	A	A	B	A	A	E	E	E	E	D	D
Approach Vol, veh/h		159			245			761			403	
Approach Delay, s/veh		8.9			9.3			59.9			41.9	
Approach LOS		A			A			E			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	76.4	8.4	30.2	76.4	7.9	30.7
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	52.5	29.5	21.0	52.5	29.5
Max Q Clear Time (g_c+I1), s	6.8	5.6	10.3	8.9	5.3	24.3
Green Ext Time (p_c), s	0.6	0.1	1.5	0.8	0.1	1.9

Intersection Summary	
HCM 6th Ctrl Delay	42.2
HCM 6th LOS	D

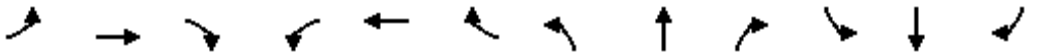
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	121	513	72	156	964	174	92	312	124	152	571	288
Future Volume (veh/h)	121	513	72	156	964	174	92	312	124	152	571	288
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	127	540	76	164	1015	183	97	328	131	160	601	303
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	151	648	289	646	1669	744	120	556	218	184	593	299
Arrive On Green	0.08	0.18	0.18	0.36	0.46	0.46	0.07	0.22	0.22	0.10	0.26	0.26
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2533	993	1810	2323	1171
Grp Volume(v), veh/h	127	540	76	164	1015	183	97	232	227	160	467	437
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1721	1810	1805	1689
Q Serve(g_s), s	9.7	20.2	4.8	9.0	29.4	9.7	7.4	16.1	16.6	12.2	35.7	35.7
Cycle Q Clear(g_c), s	9.7	20.2	4.8	9.0	29.4	9.7	7.4	16.1	16.6	12.2	35.7	35.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.58	1.00		0.69
Lane Grp Cap(c), veh/h	151	648	289	646	1669	744	120	396	377	184	460	431
V/C Ratio(X)	0.84	0.83	0.26	0.25	0.61	0.25	0.81	0.59	0.60	0.87	1.01	1.01
Avail Cap(c_a), veh/h	323	1307	583	646	1669	744	259	396	377	259	460	431
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	63.2	55.4	34.8	31.8	28.2	22.8	64.5	49.0	49.2	61.9	52.1	52.1
Incr Delay (d2), s/veh	4.7	12.0	2.2	0.2	1.7	0.8	4.9	6.2	6.9	15.3	45.6	47.1
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	4.6	10.1	2.4	3.9	12.6	3.8	3.5	7.9	7.8	6.3	21.5	20.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	67.9	67.4	37.0	32.0	29.8	23.6	69.4	55.2	56.1	77.2	97.7	99.3
LnGrp LOS	E	E	D	C	C	C	E	E	E	E	F	F
Approach Vol, veh/h		743			1362			556			1064	
Approach Delay, s/veh		64.4			29.2			58.0			95.3	
Approach LOS		E			C			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	5.3	30.4	13.3	41.0	15.7	70.0	18.3	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	11.6	22.2	9.4	37.7	11.7	31.4	14.2	18.6
Green Ext Time (p_c), s	0.3	2.9	0.1	0.0	0.1	4.1	0.1	1.7

Intersection Summary	
HCM 6th Ctrl Delay	59.4
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	170	1234	159	255	740	14	133	22	411	223	13	21
Future Volume (veh/h)	170	1234	159	255	740	14	133	22	411	223	13	21
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		0.98	1.00		0.97	1.00		0.98
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	179	1299	167	268	779	15	101	0	490	235	14	22
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	187	1601	713	322	1564	30	363	0	923	266	96	152
Arrive On Green	0.10	0.44	0.44	0.09	0.43	0.43	0.20	0.00	0.20	0.15	0.15	0.15
Sat Flow, veh/h	1810	3610	1607	3510	3621	70	1810	0	3126	1810	657	1033
Grp Volume(v), veh/h	179	1299	167	268	388	406	101	0	490	235	0	36
Grp Sat Flow(s),veh/h/ln	1810	1805	1607	1755	1805	1885	1810	0	1563	1810	0	1690
Q Serve(g_s), s	15.3	48.5	10.0	11.6	24.1	24.1	7.3	0.0	20.4	19.7	0.0	2.9
Cycle Q Clear(g_c), s	15.3	48.5	10.0	11.6	24.1	24.1	7.3	0.0	20.4	19.7	0.0	2.9
Prop In Lane	1.00		1.00	1.00		0.04	1.00		1.00	1.00		0.61
Lane Grp Cap(c), veh/h	187	1601	713	322	780	814	363	0	923	266	0	248
V/C Ratio(X)	0.96	0.81	0.23	0.83	0.50	0.50	0.28	0.00	0.53	0.88	0.00	0.15
Avail Cap(c_a), veh/h	187	1601	713	702	780	814	363	0	923	327	0	305
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	1.00	1.00	0.59	0.00	0.59	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.2	37.5	26.8	69.2	31.9	31.9	52.4	0.0	46.0	64.8	0.0	57.6
Incr Delay (d2), s/veh	53.3	4.6	0.8	4.2	0.5	0.5	1.1	0.0	1.3	20.8	0.0	0.3
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	9.7	21.7	4.0	5.3	10.5	10.9	3.4	0.0	8.0	10.6	0.0	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	122.4	42.1	27.6	73.4	32.4	32.3	53.6	0.0	47.3	85.6	0.0	57.9
LnGrp LOS	F	D	C	E	C	C	D	A	D	F	A	E
Approach Vol, veh/h		1645			1062			591			271	
Approach Delay, s/veh		49.4			42.7			48.4			82.0	
Approach LOS		D			D			D			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	18.2	74.0		26.7	20.0	72.3		36.0				
Change Period (Y+Rc), s	4.0	5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	31.0	46.7		28.0	16.0	61.7		31.1				
Max Q Clear Time (g_c+I1), s	13.6	50.5		21.7	17.3	26.1		22.4				
Green Ext Time (p_c), s	0.6	0.0		0.7	0.0	4.9		1.3				

Intersection Summary			
HCM 6th Ctrl Delay		49.7	
HCM 6th LOS		D	

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	155	66	201	134	70	35	519	140	41	385	24
Future Volume (veh/h)	51	155	66	201	134	70	35	519	140	41	385	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	54	163	69	212	141	74	37	546	147	43	405	25
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	761	806	341	746	746	392	48	633	170	57	828	368
Arrive On Green	0.64	0.64	0.64	0.64	0.64	0.64	0.03	0.22	0.22	0.03	0.23	0.23
Sat Flow, veh/h	1184	1261	534	1166	1167	612	1810	2813	754	1810	3610	1603
Grp Volume(v), veh/h	54	0	232	212	0	215	37	350	343	43	405	25
Grp Sat Flow(s),veh/h/ln	1184	0	1795	1166	0	1779	1810	1805	1762	1810	1805	1603
Q Serve(g_s), s	2.3	0.0	6.2	10.6	0.0	5.7	2.3	21.4	21.6	2.7	11.2	1.4
Cycle Q Clear(g_c), s	8.0	0.0	6.2	16.7	0.0	5.7	2.3	21.4	21.6	2.7	11.2	1.4
Prop In Lane	1.00		0.30	1.00		0.34	1.00		0.43	1.00		1.00
Lane Grp Cap(c), veh/h	761	0	1148	746	0	1138	48	406	396	57	828	368
V/C Ratio(X)	0.07	0.00	0.20	0.28	0.00	0.19	0.77	0.86	0.87	0.76	0.49	0.07
Avail Cap(c_a), veh/h	761	0	1148	746	0	1138	810	479	467	810	957	425
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	0.77	0.77	0.77
Uniform Delay (d), s/veh	10.1	0.0	8.6	12.0	0.0	8.5	55.6	42.8	42.9	55.3	38.5	34.7
Incr Delay (d2), s/veh	0.2	0.0	0.4	1.0	0.0	0.4	22.0	13.1	14.0	14.8	0.3	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	0.6	0.0	2.4	2.8	0.0	2.2	1.3	10.8	10.7	1.4	4.9	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	10.3	0.0	9.0	13.0	0.0	8.9	77.6	56.0	56.9	70.1	38.8	34.7
LnGrp LOS	B	A	A	B	A	A	E	E	E	E	D	C
Approach Vol, veh/h		286			427			730			473	
Approach Delay, s/veh		9.2			10.9			57.5			41.4	
Approach LOS		A			B			E			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	77.5	6.6	30.9	77.5	7.1	30.4
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	51.5	30.5	21.0	51.5	30.5
Max Q Clear Time (g_c+I1), s	10.0	4.3	13.2	18.7	4.7	23.6
Green Ext Time (p_c), s	1.1	0.1	2.1	0.5	0.1	2.3

Intersection Summary	
HCM 6th Ctrl Delay	35.9
HCM 6th LOS	D

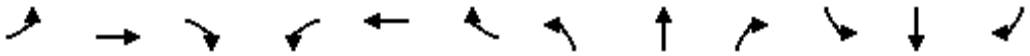
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	359	1287	123	168	778	164	113	587	192	173	483	171
Future Volume (veh/h)	359	1287	123	168	778	164	113	587	192	173	483	171
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	374	1341	128	175	810	171	118	611	200	180	503	178
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	323	1307	581	296	1287	566	142	586	192	204	664	234
Arrive On Green	0.18	0.36	0.36	0.16	0.36	0.36	0.08	0.22	0.22	0.11	0.25	0.25
Sat Flow, veh/h	1810	3610	1604	1810	3610	1587	1810	2673	874	1810	2618	921
Grp Volume(v), veh/h	374	1341	128	175	810	171	118	412	399	180	346	335
Grp Sat Flow(s),veh/h/ln	1810	1805	1604	1810	1805	1587	1810	1805	1741	1810	1805	1734
Q Serve(g_s), s	25.0	50.7	6.0	12.5	26.1	10.9	9.0	30.7	30.7	13.7	24.8	25.0
Cycle Q Clear(g_c), s	25.0	50.7	6.0	12.5	26.1	10.9	9.0	30.7	30.7	13.7	24.8	25.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		0.53
Lane Grp Cap(c), veh/h	323	1307	581	296	1287	566	142	396	382	204	458	440
V/C Ratio(X)	1.16	1.03	0.22	0.59	0.63	0.30	0.83	1.04	1.04	0.88	0.76	0.76
Avail Cap(c_a), veh/h	323	1307	581	296	1287	566	259	396	382	259	458	440
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.5	44.7	18.5	54.2	37.4	32.5	63.6	54.7	54.7	61.2	48.2	48.3
Incr Delay (d2), s/veh	99.9	31.7	0.9	3.1	2.3	1.4	4.7	56.5	58.0	20.8	11.0	11.8
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	20.1	27.5	3.1	5.9	11.6	4.4	4.3	19.9	19.4	7.4	12.3	12.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	157.4	76.3	19.4	57.3	39.7	33.9	68.4	111.1	112.7	82.0	59.3	60.1
LnGrp LOS	F	F	B	E	D	C	E	F	F	F	E	E
Approach Vol, veh/h		1843			1156			929			861	
Approach Delay, s/veh		88.8			41.5			106.4			64.3	
Approach LOS		F			D			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.2	56.0	15.0	40.8	29.0	55.2	19.8	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	14.5	52.7	11.0	27.0	27.0	28.1	15.7	32.7
Green Ext Time (p_c), s	0.2	0.0	0.1	1.4	0.0	3.3	0.1	0.0

Intersection Summary	
HCM 6th Ctrl Delay	76.4
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	32	569	171	223	1160	11	287	18	251	11	18	30
Future Volume (veh/h)	32	569	171	223	1160	11	287	18	251	11	18	30
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	34	599	180	235	1221	12	392	0	182	12	19	32
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	58	697	311	1553	2239	22	749	0	1046	23	36	51
Arrive On Green	0.03	0.19	0.19	0.44	0.61	0.61	0.21	0.00	0.21	0.03	0.03	0.03
Sat Flow, veh/h	1810	3610	1610	3510	3663	36	3619	0	1610	722	1142	1610
Grp Volume(v), veh/h	34	599	180	235	602	631	392	0	182	31	0	32
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1755	1805	1894	1810	0	1610	1864	0	1610
Q Serve(g_s), s	2.9	24.9	15.7	6.2	30.1	30.1	14.9	0.0	0.0	2.5	0.0	3.0
Cycle Q Clear(g_c), s	2.9	24.9	15.7	6.2	30.1	30.1	14.9	0.0	0.0	2.5	0.0	3.0
Prop In Lane	1.00		1.00	1.00		0.02	1.00		1.00	0.39		1.00
Lane Grp Cap(c), veh/h	58	697	311	1553	1104	1158	749	0	1046	59	0	51
V/C Ratio(X)	0.58	0.86	0.58	0.15	0.55	0.55	0.52	0.00	0.17	0.52	0.00	0.63
Avail Cap(c_a), veh/h	187	855	381	1553	1104	1158	749	0	1046	325	0	280
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	1.00	1.00	0.54	0.00	0.54	1.00	0.00	1.00
Uniform Delay (d), s/veh	74.0	60.5	56.8	25.8	17.6	17.6	54.6	0.0	10.7	73.9	0.0	74.1
Incr Delay (d2), s/veh	3.4	13.1	7.7	0.0	0.6	0.5	1.4	0.0	0.2	7.0	0.0	11.9
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	1.4	12.5	7.0	2.6	12.1	12.6	6.9	0.0	2.5	1.3	0.0	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.4	73.6	64.5	25.9	18.1	18.1	56.1	0.0	10.9	80.9	0.0	86.0
LnGrp LOS	E	E	E	C	B	B	E	A	B	F	A	F
Approach Vol, veh/h		813			1468			574			63	
Approach Delay, s/veh		71.8			19.3			41.7			83.5	
Approach LOS		E			B			D			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	73.9	35.2		8.9	9.0	100.1		37.0				
Change Period (Y+Rc), s	5.3	* 5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	41.0	* 37		27.0	16.0	61.7		32.1				
Max Q Clear Time (g_c+I1), s	8.2	26.9		5.0	4.9	32.1		16.9				
Green Ext Time (p_c), s	0.6	3.0		0.2	0.0	8.8		1.3				

Intersection Summary		
HCM 6th Ctrl Delay		39.7
HCM 6th LOS		D

Notes

User approved volume balancing among the lanes for turning movement.

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	95	35	83	129	21	55	486	205	49	310	42
Future Volume (veh/h)	21	95	35	83	129	21	55	486	205	49	310	42
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	22	100	37	87	136	22	58	512	216	52	326	44
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	798	826	306	818	996	161	77	578	243	69	826	369
Arrive On Green	0.62	0.62	0.62	0.62	0.62	0.62	0.04	0.23	0.23	0.04	0.23	0.23
Sat Flow, veh/h	1248	1323	489	1272	1595	258	1810	2477	1040	1810	3610	1610
Grp Volume(v), veh/h	22	0	137	87	0	158	58	372	356	52	326	44
Grp Sat Flow(s),veh/h/ln	1248	0	1812	1272	0	1854	1810	1805	1713	1810	1805	1610
Q Serve(g_s), s	0.8	0.0	3.5	3.4	0.0	4.0	3.6	22.9	23.1	3.3	8.8	2.5
Cycle Q Clear(g_c), s	4.9	0.0	3.5	7.0	0.0	4.0	3.6	22.9	23.1	3.3	8.8	2.5
Prop In Lane	1.00		0.27	1.00		0.14	1.00		0.61	1.00		1.00
Lane Grp Cap(c), veh/h	798	0	1131	818	0	1157	77	421	400	69	826	369
V/C Ratio(X)	0.03	0.00	0.12	0.11	0.00	0.14	0.76	0.88	0.89	0.76	0.39	0.12
Avail Cap(c_a), veh/h	798	0	1131	818	0	1157	826	463	439	826	926	413
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	0.95	0.95	0.95
Uniform Delay (d), s/veh	9.9	0.0	8.8	10.2	0.0	8.9	54.5	42.6	42.7	54.8	37.6	35.2
Incr Delay (d2), s/veh	0.1	0.0	0.2	0.3	0.0	0.2	13.9	17.1	18.6	14.6	0.3	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	0.2	0.0	1.4	1.0	0.0	1.6	1.9	11.9	11.5	1.7	3.8	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	9.9	0.0	9.0	10.5	0.0	9.1	68.3	59.7	61.2	69.4	37.9	35.3
LnGrp LOS	A	A	A	B	A	A	E	E	E	E	D	D
Approach Vol, veh/h		159			245			786			422	
Approach Delay, s/veh		9.1			9.6			61.0			41.5	
Approach LOS		A			A			E			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	75.8	8.4	30.8	75.8	7.9	31.3
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	52.5	29.5	21.0	52.5	29.5
Max Q Clear Time (g_c+I1), s	6.9	5.6	10.8	9.0	5.3	25.1
Green Ext Time (p_c), s	0.6	0.1	1.6	0.8	0.1	1.7

Intersection Summary	
HCM 6th Ctrl Delay	43.0
HCM 6th LOS	D

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	786	36	0	1388	29	0
Future Vol, veh/h	786	36	0	1388	29	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	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	827	38	0	1461	31	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	865	0	1577	433
Stage 1	-	-	-	-	846	-
Stage 2	-	-	-	-	731	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	*1152	-	*102	*767
Stage 1	-	-	-	-	*723	-
Stage 2	-	-	-	-	*483	-
Platoon blocked, %	-	-	1	-		1
Mov Cap-1 Maneuver	-	-	*1152	-	*102	*767
Mov Cap-2 Maneuver	-	-	-	-	*309	-
Stage 1	-	-	-	-	*723	-
Stage 2	-	-	-	-	*483	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	17.9
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	309	-	-	* 1152	-
HCM Lane V/C Ratio	0.099	-	-	-	-
HCM Control Delay (s)	17.9	-	-	0	-
HCM Lane LOS	C	-	-	A	-
HCM 95th %tile Q(veh)	0.3	-	-	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	0.1

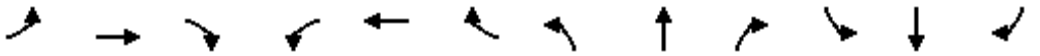
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	798	0	21	1414	0	18
Future Vol, veh/h	798	0	21	1414	0	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	840	0	22	1488	0	19

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	840	0	1628	420
Stage 1	-	-	-	-	840	-
Stage 2	-	-	-	-	788	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	*1152	-	*95	*767
Stage 1	-	-	-	-	*723	-
Stage 2	-	-	-	-	*483	-
Platoon blocked, %	-	-	1	-		1
Mov Cap-1 Maneuver	-	-	*1152	-	*93	*767
Mov Cap-2 Maneuver	-	-	-	-	*302	-
Stage 1	-	-	-	-	*723	-
Stage 2	-	-	-	-	*474	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.1	9.8
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	767	-	-	* 1152	-
HCM Lane V/C Ratio	0.025	-	-	0.019	-
HCM Control Delay (s)	9.8	-	-	8.2	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



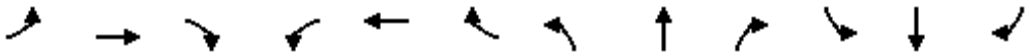
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	125	525	75	156	977	174	96	312	124	152	571	293
Future Volume (veh/h)	125	525	75	156	977	174	96	312	124	152	571	293
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	132	553	79	164	1028	183	101	328	131	160	601	308
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	157	662	295	639	1659	740	124	556	218	184	583	299
Arrive On Green	0.09	0.18	0.18	0.35	0.46	0.46	0.07	0.22	0.22	0.10	0.25	0.25
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2533	993	1810	2309	1183
Grp Volume(v), veh/h	132	553	79	164	1028	183	101	232	227	160	470	439
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1721	1810	1805	1687
Q Serve(g_s), s	10.1	20.7	4.9	9.0	30.1	9.7	7.7	16.1	16.6	12.2	35.4	35.4
Cycle Q Clear(g_c), s	10.1	20.7	4.9	9.0	30.1	9.7	7.7	16.1	16.6	12.2	35.4	35.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.58	1.00		0.70
Lane Grp Cap(c), veh/h	157	662	295	639	1659	740	124	396	377	184	456	426
V/C Ratio(X)	0.84	0.83	0.27	0.26	0.62	0.25	0.81	0.59	0.60	0.87	1.03	1.03
Avail Cap(c_a), veh/h	323	1307	583	639	1659	740	259	396	377	259	456	426
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	63.0	55.1	34.2	32.2	28.6	23.1	64.3	49.0	49.2	61.9	52.3	52.3
Incr Delay (d2), s/veh	4.7	11.9	2.2	0.2	1.8	0.8	4.8	6.2	6.9	15.3	50.1	51.6
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	4.8	10.3	2.5	3.9	13.0	3.8	3.7	7.9	7.8	6.3	21.9	20.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	67.7	67.0	36.4	32.4	30.3	23.9	69.2	55.2	56.1	77.2	102.4	104.0
LnGrp LOS	E	E	D	C	C	C	E	E	E	E	F	F
Approach Vol, veh/h		764			1375			560			1069	
Approach Delay, s/veh		63.9			29.7			58.1			99.3	
Approach LOS		E			C			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	54.8	31.0	13.6	40.7	16.1	69.6	18.3	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	11.0	22.7	9.7	37.4	12.1	32.1	14.2	18.6
Green Ext Time (p_c), s	0.3	3.0	0.1	0.0	0.1	4.1	0.1	1.7

Intersection Summary	
HCM 6th Ctrl Delay	60.6
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	170	1244	159	270	750	14	133	22	428	223	13	21
Future Volume (veh/h)	170	1244	159	270	750	14	133	22	428	223	13	21
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		0.98	1.00		0.97	1.00		0.98
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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	179	1309	167	284	789	15	101	0	508	235	14	22
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	187	1584	705	339	1564	30	363	0	938	266	96	152
Arrive On Green	0.10	0.44	0.44	0.10	0.43	0.43	0.20	0.00	0.20	0.15	0.15	0.15
Sat Flow, veh/h	1810	3610	1607	3510	3622	69	1810	0	3126	1810	657	1033
Grp Volume(v), veh/h	179	1309	167	284	393	411	101	0	508	235	0	36
Grp Sat Flow(s),veh/h/ln	1810	1805	1607	1755	1805	1886	1810	0	1563	1810	0	1690
Q Serve(g_s), s	15.3	49.5	10.1	12.3	24.5	24.5	7.3	0.0	21.1	19.7	0.0	2.9
Cycle Q Clear(g_c), s	15.3	49.5	10.1	12.3	24.5	24.5	7.3	0.0	21.1	19.7	0.0	2.9
Prop In Lane	1.00		1.00	1.00		0.04	1.00		1.00	1.00		0.61
Lane Grp Cap(c), veh/h	187	1584	705	339	780	814	363	0	938	266	0	248
V/C Ratio(X)	0.96	0.83	0.24	0.84	0.50	0.50	0.28	0.00	0.54	0.88	0.00	0.15
Avail Cap(c_a), veh/h	187	1584	705	702	780	814	363	0	938	327	0	305
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	1.00	1.00	0.58	0.00	0.58	1.00	0.00	1.00
Uniform Delay (d), s/veh	69.2	38.3	27.2	68.8	32.0	32.0	52.4	0.0	45.7	64.8	0.0	57.6
Incr Delay (d2), s/veh	53.3	5.1	0.8	4.2	0.5	0.5	1.1	0.0	1.3	20.8	0.0	0.3
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	9.7	22.3	4.0	5.7	10.6	11.1	3.4	0.0	8.3	10.6	0.0	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	122.4	43.4	28.0	73.0	32.5	32.5	53.6	0.0	47.0	85.6	0.0	57.9
LnGrp LOS	F	D	C	E	C	C	D	A	D	F	A	E
Approach Vol, veh/h		1655			1088			609			271	
Approach Delay, s/veh		50.4			43.1			48.1			82.0	
Approach LOS		D			D			D			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	18.9	73.3		26.7	20.0	72.3		36.0				
Change Period (Y+Rc), s	4.0	5.3		4.0	4.0	5.3		4.9				
Max Green Setting (Gmax), s	31.0	46.7		28.0	16.0	61.7		31.1				
Max Q Clear Time (g_c+I1), s	14.3	51.5		21.7	17.3	26.5		23.1				
Green Ext Time (p_c), s	0.6	0.0		0.7	0.0	5.0		1.3				

Intersection Summary			
HCM 6th Ctrl Delay		50.2	
HCM 6th LOS		D	

Notes

User approved volume balancing among the lanes for turning movement.

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	51	155	66	201	134	70	35	536	140	41	400	24
Future Volume (veh/h)	51	155	66	201	134	70	35	536	140	41	400	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	54	163	69	212	141	74	37	564	147	43	421	25
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	755	801	339	740	741	389	48	649	169	57	843	375
Arrive On Green	0.64	0.64	0.64	0.64	0.64	0.64	0.03	0.23	0.23	0.03	0.23	0.23
Sat Flow, veh/h	1184	1261	534	1166	1167	612	1810	2834	736	1810	3610	1603
Grp Volume(v), veh/h	54	0	232	212	0	215	37	359	352	43	421	25
Grp Sat Flow(s),veh/h/ln	1184	0	1795	1166	0	1779	1810	1805	1766	1810	1805	1603
Q Serve(g_s), s	2.3	0.0	6.2	10.7	0.0	5.8	2.3	22.0	22.1	2.7	11.6	1.4
Cycle Q Clear(g_c), s	8.0	0.0	6.2	16.9	0.0	5.8	2.3	22.0	22.1	2.7	11.6	1.4
Prop In Lane	1.00		0.30	1.00		0.34	1.00		0.42	1.00		1.00
Lane Grp Cap(c), veh/h	755	0	1140	740	0	1131	48	413	404	57	843	375
V/C Ratio(X)	0.07	0.00	0.20	0.29	0.00	0.19	0.77	0.87	0.87	0.76	0.50	0.07
Avail Cap(c_a), veh/h	755	0	1140	740	0	1131	810	479	468	810	957	425
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	0.76	0.76	0.76
Uniform Delay (d), s/veh	10.4	0.0	8.8	12.3	0.0	8.7	55.6	42.7	42.7	55.3	38.2	34.3
Incr Delay (d2), s/veh	0.2	0.0	0.4	1.0	0.0	0.4	22.0	14.0	14.8	14.6	0.3	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	0.6	0.0	2.4	2.9	0.0	2.2	1.3	11.1	11.0	1.4	5.1	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	10.5	0.0	9.2	13.3	0.0	9.1	77.6	56.6	57.5	69.9	38.6	34.4
LnGrp LOS	B	A	A	B	A	A	E	E	E	E	D	C
Approach Vol, veh/h		286			427			748			489	
Approach Delay, s/veh		9.4			11.2			58.1			41.1	
Approach LOS		A			B			E			D	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	77.1	6.6	31.4	77.1	7.1	30.8
Change Period (Y+Rc), s	4.0	3.5	4.5	4.0	3.5	4.5
Max Green Setting (Gmax), s	21.0	51.5	30.5	21.0	51.5	30.5
Max Q Clear Time (g_c+I1), s	10.0	4.3	13.6	18.9	4.7	24.1
Green Ext Time (p_c), s	1.1	0.1	2.2	0.4	0.1	2.2

Intersection Summary	
HCM 6th Ctrl Delay	36.4
HCM 6th LOS	D

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1782	27	0	1046	24	0
Future Vol, veh/h	1782	27	0	1046	24	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	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1876	28	0	1101	25	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1904	0	2441	952
Stage 1	-	-	-	-	1890	-
Stage 2	-	-	-	-	551	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	*495	-	*27	*330
Stage 1	-	-	-	-	*311	-
Stage 2	-	-	-	-	*629	-
Platoon blocked, %	-	-	1	-		1
Mov Cap-1 Maneuver	-	-	*495	-	*27	*330
Mov Cap-2 Maneuver	-	-	-	-	*201	-
Stage 1	-	-	-	-	*311	-
Stage 2	-	-	-	-	*629	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	25.5
HCM LOS			D

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	201	-	-	* 495	-
HCM Lane V/C Ratio	0.126	-	-	-	-
HCM Control Delay (s)	25.5	-	-	0	-
HCM Lane LOS	D	-	-	A	-
HCM 95th %tile Q(veh)	0.4	-	-	0	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	0.2

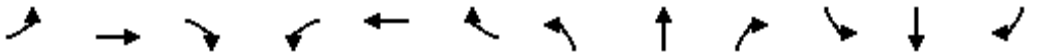
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	1798	0	14	1067	0	14
Future Vol, veh/h	1798	0	14	1067	0	14
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1893	0	15	1123	0	15

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	1893	0	2485	947
Stage 1	-	-	-	-	1893	-
Stage 2	-	-	-	-	592	-
Critical Hdwy	-	-	4.1	-	6.8	6.9
Critical Hdwy Stg 1	-	-	-	-	5.8	-
Critical Hdwy Stg 2	-	-	-	-	5.8	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	*495	-	*25	*330
Stage 1	-	-	-	-	*311	-
Stage 2	-	-	-	-	*608	-
Platoon blocked, %	-	-	1	-		1
Mov Cap-1 Maneuver	-	-	*495	-	*24	*330
Mov Cap-2 Maneuver	-	-	-	-	*196	-
Stage 1	-	-	-	-	*311	-
Stage 2	-	-	-	-	*590	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.2	16.4
HCM LOS			C

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	330	-	-	* 495	-
HCM Lane V/C Ratio	0.045	-	-	0.03	-
HCM Control Delay (s)	16.4	-	-	12.5	-
HCM Lane LOS	C	-	-	B	-
HCM 95th %tile Q(veh)	0.1	-	-	0.1	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon



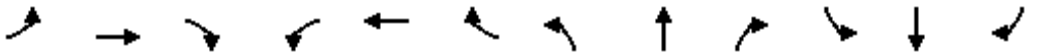
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	362	1296	125	168	786	164	116	587	192	173	483	173
Future Volume (veh/h)	362	1296	125	168	786	164	116	587	192	173	483	173
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	377	1350	130	175	819	171	121	611	200	180	503	180
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	323	1307	581	296	1287	566	145	586	192	204	658	234
Arrive On Green	0.18	0.36	0.36	0.16	0.36	0.36	0.08	0.22	0.22	0.11	0.25	0.25
Sat Flow, veh/h	1810	3610	1604	1810	3610	1587	1810	2673	874	1810	2609	929
Grp Volume(v), veh/h	377	1350	130	175	819	171	121	412	399	180	347	336
Grp Sat Flow(s),veh/h/ln	1810	1805	1604	1810	1805	1587	1810	1805	1741	1810	1805	1733
Q Serve(g_s), s	25.0	50.7	6.1	12.5	26.4	10.9	9.2	30.7	30.7	13.7	24.9	25.2
Cycle Q Clear(g_c), s	25.0	50.7	6.1	12.5	26.4	10.9	9.2	30.7	30.7	13.7	24.9	25.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		0.54
Lane Grp Cap(c), veh/h	323	1307	581	296	1287	566	145	396	382	204	455	437
V/C Ratio(X)	1.17	1.03	0.22	0.59	0.64	0.30	0.84	1.04	1.04	0.88	0.76	0.77
Avail Cap(c_a), veh/h	323	1307	581	296	1287	566	259	396	382	259	455	437
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.5	44.7	18.4	54.2	37.5	32.5	63.5	54.7	54.7	61.2	48.5	48.6
Incr Delay (d2), s/veh	103.3	33.7	0.9	3.1	2.4	1.4	4.7	56.5	58.0	20.8	11.5	12.3
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	20.4	27.9	3.1	5.9	11.8	4.4	4.4	19.9	19.4	7.4	12.4	12.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	160.8	78.3	19.3	57.3	39.9	33.9	68.2	111.1	112.7	82.0	60.0	60.9
LnGrp LOS	F	F	B	E	D	C	E	F	F	F	E	E
Approach Vol, veh/h		1857			1165			932			863	
Approach Delay, s/veh		90.9			41.6			106.2			64.9	
Approach LOS		F			D			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	28.2	56.0	15.2	40.6	29.0	55.2	19.8	36.0
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	20.0	* 51	20.0	30.7	25.0	45.7	20.0	30.7
Max Q Clear Time (g_c+I1), s	14.5	52.7	11.2	27.2	27.0	28.4	15.7	32.7
Green Ext Time (p_c), s	0.2	0.0	0.1	1.3	0.0	3.3	0.1	0.0

Intersection Summary	
HCM 6th Ctrl Delay	77.3
HCM 6th LOS	E

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



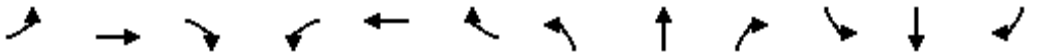
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	309	1082	119	160	687	144	100	483	165	165	460	165
Future Volume (veh/h)	309	1082	119	160	687	144	100	483	165	165	460	165
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	322	1127	124	167	716	150	104	503	172	172	479	172
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	302	1099	488	817	2179	959	132	822	280	161	853	304
Arrive On Green	0.17	0.30	0.30	0.45	0.60	0.60	0.07	0.31	0.31	0.09	0.33	0.33
Sat Flow, veh/h	1810	3610	1602	1810	3610	1589	1810	2643	899	1810	2608	930
Grp Volume(v), veh/h	322	1127	124	167	716	150	104	343	332	172	331	320
Grp Sat Flow(s),veh/h/ln	1810	1805	1602	1810	1805	1589	1810	1805	1737	1810	1805	1733
Q Serve(g_s), s	15.0	27.4	6.8	5.0	8.8	3.7	5.1	14.5	14.7	8.0	13.6	13.7
Cycle Q Clear(g_c), s	15.0	27.4	6.8	5.0	8.8	3.7	5.1	14.5	14.7	8.0	13.6	13.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.52	1.00		0.54
Lane Grp Cap(c), veh/h	302	1099	488	817	2179	959	132	562	540	161	590	567
V/C Ratio(X)	1.07	1.03	0.25	0.20	0.33	0.16	0.79	0.61	0.62	1.07	0.56	0.57
Avail Cap(c_a), veh/h	302	1099	488	817	2179	959	161	562	540	161	590	567
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.5	31.3	39.2	14.9	8.8	7.8	41.0	26.4	26.4	41.0	25.0	25.0
Incr Delay (d2), s/veh	70.9	33.8	1.3	0.1	0.4	0.3	15.2	4.9	5.2	90.6	3.8	4.1
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	12.2	16.1	2.1	1.9	3.0	1.2	2.7	6.6	6.5	7.4	6.0	5.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	108.4	65.1	40.4	15.0	9.2	8.2	56.3	31.2	31.6	131.6	28.8	29.1
LnGrp LOS	F	F	D	B	A	A	E	C	C	F	C	C
Approach Vol, veh/h		1573			1033			779			823	
Approach Delay, s/veh		72.0			10.0			34.7			50.4	
Approach LOS		E			B			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	46.2	32.7	10.6	34.7	19.0	59.9	12.0	33.3
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	8.0	* 27	8.0	28.0	15.0	20.4	8.0	28.0
Max Q Clear Time (g_c+I1), s	7.0	29.4	7.1	15.7	17.0	10.8	10.0	16.7
Green Ext Time (p_c), s	0.0	0.0	0.0	2.9	0.0	2.3	0.0	2.5

Intersection Summary	
HCM 6th Ctrl Delay	45.7
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



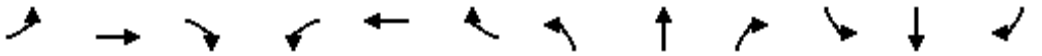
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	125	525	75	156	977	174	96	312	124	152	571	293
Future Volume (veh/h)	125	525	75	156	977	174	96	312	124	152	571	293
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	132	553	79	164	1028	183	101	328	131	160	601	308
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	141	686	306	321	1099	490	129	788	309	181	785	402
Arrive On Green	0.08	0.19	0.19	0.18	0.30	0.30	0.07	0.31	0.31	0.10	0.34	0.34
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	2533	993	1810	2309	1183
Grp Volume(v), veh/h	132	553	79	164	1028	183	101	232	227	160	470	439
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	1805	1721	1810	1805	1687
Q Serve(g_s), s	6.5	13.2	3.0	7.4	24.9	8.0	4.9	9.1	9.4	7.9	20.9	20.9
Cycle Q Clear(g_c), s	6.5	13.2	3.0	7.4	24.9	8.0	4.9	9.1	9.4	7.9	20.9	20.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.58	1.00		0.70
Lane Grp Cap(c), veh/h	141	686	306	321	1099	490	129	562	536	181	614	574
V/C Ratio(X)	0.94	0.81	0.26	0.51	0.94	0.37	0.79	0.41	0.42	0.88	0.77	0.77
Avail Cap(c_a), veh/h	141	939	419	321	1099	490	161	562	536	181	614	574
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.3	34.9	19.1	33.5	30.4	24.6	41.1	24.5	24.6	40.0	26.5	26.5
Incr Delay (d2), s/veh	56.6	9.8	2.0	1.3	15.5	2.2	14.1	2.2	2.5	35.5	8.8	9.4
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	5.0	6.4	1.6	3.2	12.3	3.2	2.6	4.0	4.0	5.1	9.7	9.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	97.9	44.6	21.1	34.8	45.9	26.7	55.2	26.7	27.1	75.5	35.3	35.9
LnGrp LOS	F	D	C	C	D	C	E	C	C	E	D	D
Approach Vol, veh/h		764			1375			560			1069	
Approach Delay, s/veh		51.4			42.0			32.0			41.6	
Approach LOS		D			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.3	22.4	10.4	35.9	11.0	32.7	13.0	33.3
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	11.0	* 23	8.0	29.0	7.0	27.4	9.0	28.0
Max Q Clear Time (g_c+I1), s	9.4	15.2	6.9	22.9	8.5	26.9	9.9	11.4
Green Ext Time (p_c), s	0.1	1.9	0.0	2.7	0.0	0.3	0.0	1.9

Intersection Summary	
HCM 6th Ctrl Delay	42.3
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	362	1296	125	168	786	164	116	587	192	173	483	173
Future Volume (veh/h)	362	1296	125	168	786	164	116	587	192	173	483	173
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		0.99	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	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	377	1350	130	175	819	171	121	611	200	180	503	180
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, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	395	1359	604	608	1827	804	148	680	222	181	711	253
Arrive On Green	0.22	0.38	0.38	0.34	0.51	0.51	0.08	0.25	0.25	0.10	0.27	0.27
Sat Flow, veh/h	1810	3610	1604	1810	3610	1588	1810	2673	874	1810	2609	929
Grp Volume(v), veh/h	377	1350	130	175	819	171	121	412	399	180	347	336
Grp Sat Flow(s),veh/h/ln	1810	1805	1604	1810	1805	1588	1810	1805	1742	1810	1805	1733
Q Serve(g_s), s	22.6	41.0	6.8	7.8	15.9	6.6	7.2	24.3	24.3	10.9	19.1	19.2
Cycle Q Clear(g_c), s	22.6	41.0	6.8	7.8	15.9	6.6	7.2	24.3	24.3	10.9	19.1	19.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		0.54
Lane Grp Cap(c), veh/h	395	1359	604	608	1827	804	148	459	443	181	492	472
V/C Ratio(X)	0.95	0.99	0.22	0.29	0.45	0.21	0.82	0.90	0.90	0.99	0.71	0.71
Avail Cap(c_a), veh/h	395	1359	604	608	1827	804	165	459	443	181	492	472
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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.5	34.2	29.8	26.8	17.4	15.0	49.7	39.6	39.6	49.5	36.0	36.1
Incr Delay (d2), s/veh	33.4	22.9	0.8	0.3	0.8	0.6	21.8	22.9	23.8	65.2	8.3	8.8
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	13.3	21.0	2.4	3.3	6.3	2.4	4.1	13.3	13.0	8.1	9.2	8.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	75.9	57.1	30.6	27.1	18.2	15.6	71.5	62.5	63.4	114.7	44.3	44.9
LnGrp LOS	E	E	C	C	B	B	E	E	E	F	D	D
Approach Vol, veh/h		1857			1165			932			863	
Approach Delay, s/veh		59.1			19.1			64.1			59.2	
Approach LOS		E			B			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	42.4	46.7	13.0	35.3	28.0	61.1	15.0	33.3
Change Period (Y+Rc), s	5.3	* 5.3	4.0	5.3	4.0	5.3	4.0	5.3
Max Green Setting (Gmax), s	11.0	* 41	10.0	29.0	24.0	28.4	11.0	28.0
Max Q Clear Time (g_c+I1), s	9.8	43.0	9.2	21.2	24.6	17.9	12.9	26.3
Green Ext Time (p_c), s	0.1	0.0	0.0	2.4	0.0	2.8	0.0	0.7

Intersection Summary	
HCM 6th Ctrl Delay	50.4
HCM 6th LOS	D

Notes

* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

APPENDIX E

QUEUING ANALYSIS WORKSHEETS

Intersection: 3: Project Driveway 1 & Foothill Boulevard

Movement	EB	NB
Directions Served	T	LR
Maximum Queue (ft)	33	53
Average Queue (ft)	2	27
95th Queue (ft)	17	54
Link Distance (ft)	33	568
Upstream Blk Time (%)	1	
Queuing Penalty (veh)	5	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 4: Project Driveway 2 & Foothill Boulevard

Movement	EB	EB	WB	WB	NB
Directions Served	T	TR	L	T	LR
Maximum Queue (ft)	29	37	25	31	53
Average Queue (ft)	1	1	10	12	16
95th Queue (ft)	10	13	30	36	43
Link Distance (ft)	2	2		26	578
Upstream Blk Time (%)			5	1	
Queuing Penalty (veh)			0	4	
Storage Bay Dist (ft)			100		
Storage Blk Time (%)			5	1	
Queuing Penalty (veh)			25	0	

Intersection: 3: Project Driveway 1 & Foothill Boulevard

Movement	EB	NB
Directions Served	T	LR
Maximum Queue (ft)	33	136
Average Queue (ft)	2	43
95th Queue (ft)	17	92
Link Distance (ft)	33	568
Upstream Blk Time (%)	1	
Queuing Penalty (veh)	5	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 4: Project Driveway 2 & Foothill Boulevard

Movement	EB	EB	WB	WB	NB
Directions Served	T	TR	L	T	LR
Maximum Queue (ft)	54	52	25	32	94
Average Queue (ft)	3	4	15	18	32
95th Queue (ft)	22	22	34	43	65
Link Distance (ft)	2	2		26	578
Upstream Blk Time (%)	0	0	13	3	
Queuing Penalty (veh)	1	0	0	16	
Storage Bay Dist (ft)			100		
Storage Blk Time (%)			13	3	
Queuing Penalty (veh)			60	1	

Intersection: 3: Project Driveway 1 & Foothill Boulevard

Movement	EB	NB
Directions Served	T	LR
Maximum Queue (ft)	33	53
Average Queue (ft)	2	25
95th Queue (ft)	17	51
Link Distance (ft)	33	568
Upstream Blk Time (%)	0	
Queuing Penalty (veh)	1	
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 4: Project Driveway 2 & Foothill Boulevard

Movement	EB	WB	WB	NB
Directions Served	T	L	T	LR
Maximum Queue (ft)	55	25	31	52
Average Queue (ft)	2	11	13	14
95th Queue (ft)	19	30	37	41
Link Distance (ft)	2		26	578
Upstream Blk Time (%)	0	6	1	
Queuing Penalty (veh)	0	0	7	
Storage Bay Dist (ft)		100		
Storage Blk Time (%)		6	1	
Queuing Penalty (veh)		42	0	

Intersection: 3: Project Driveway 1 & Foothill Boulevard

Movement	EB	EB	NB
Directions Served	T	TR	LR
Maximum Queue (ft)	33	33	75
Average Queue (ft)	4	2	29
95th Queue (ft)	21	17	59
Link Distance (ft)	33	33	568
Upstream Blk Time (%)	1	0	
Queuing Penalty (veh)	8	1	
Storage Bay Dist (ft)			
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 4: Project Driveway 2 & Foothill Boulevard

Movement	EB	EB	WB	WB	NB
Directions Served	T	TR	L	T	LR
Maximum Queue (ft)	53	31	25	32	74
Average Queue (ft)	9	3	9	10	16
95th Queue (ft)	34	19	28	33	53
Link Distance (ft)	2	2		26	578
Upstream Blk Time (%)	2	0	8	0	
Queuing Penalty (veh)	17	4	0	2	
Storage Bay Dist (ft)			100		
Storage Blk Time (%)			8	0	
Queuing Penalty (veh)			45	0	

MITIGATION MONITORING AND REPORTING PROGRAM
WEST FOOTHILL DEVELOPMENT PROJECT

This Mitigation Monitoring and Reporting Program has been prepared for use in implementing mitigation for the:

West Foothill Development Project
Development Plan Review (DPR)-22-0002, Conditional Use Permit (CUP)-22-0001, Tentative Parcel Map (TPM)-22-0002, Airport Land Use Commission (ALUC)-22-0001, Environmental Assessment Review (EAR)-22-0002

The program has been prepared in compliance with State law and the Mitigated Negative Declaration (MND) prepared for the project by the City of Upland (City).

The California Environmental Quality Act (CEQA) requires adoption of a reporting or monitoring program for those measures placed on a project to mitigate or avoid significant effects on the environment (Public Resource Code Section 21081.6). The law states the reporting or monitoring program shall be designed to ensure compliance during project implementation.

The monitoring program contains the following elements:

1) The mitigation measures are recorded with the action and procedure necessary to ensure compliance. In some instances, one action may be used to verify implementation of several mitigation measures.
2) A procedure for compliance and verification has been outlined for each action necessary. This procedure designates who will take action, what action will be taken and when, and to whom and when compliance will be reported.
3) The program has been designed to be flexible. As monitoring progresses, changes to compliance procedures may be necessary based upon recommendations by those responsible for the program. As changes are made, new monitoring compliance procedures and records will be developed and incorporated into the program.

This Mitigation Monitoring and Reporting Program includes mitigation identified in the MND.

MITIGATION MONITORING AND RESPONSIBILITIES

As the Lead Agency, the City is responsible for ensuring full compliance with the mitigation measures adopted for the proposed project. The City will monitor and report on all mitigation activities. Mitigation measures will be implemented at different stages of development throughout the project site. In this regard, the responsibilities for implementation have been assigned to the Applicant, Contractor, or a combination thereof. If, during the course of project implementation, any of the mitigation measures identified herein cannot be successfully implemented, the City shall be immediately informed, and the City will then inform any affected responsible agencies. The City, in conjunction with any affected responsible agencies, will then determine if modification to the project is required and/or whether alternative mitigation is appropriate.

STANDARD CONDITIONS

Standard Conditions are presented in instances where the proposed project would not create a significant impact but would be required to adhere to regulatory requirements in order to ensure impacts do not become significant. Standard Conditions outline compliance with various federal, State, and/or local acts, laws, rules, regulations, municipal codes, policies, etc.

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MITIGATION MONITORING AND REPORTING PROGRAM CHECKLIST

Project Name: West Foothill Development Project **Applicant: Magellan Value Partners, LLC.**

Date: November 9, 2023

Mitigation Measure No. / Implementing Action	Responsible for Monitoring	Timing of Verification	Method of Verification	Verified Date/ Initials	Sanctions for Non-Compliance
Air Quality					
MITIGATION MEASURE AQ-1: In accordance with South Coast Air Quality Management District Rule 403: Fugitive Dust, the project applicant shall show evidence to the City that the project construction contractor(s) implement the following fugitive dust reduction measures during construction: • Water active sites at least twice daily (locations where grading is to occur shall be thoroughly watered prior to earthmoving). • Cover all trucks hauling dirt, sand, soil, or other loose materials, or maintain at least 2 feet (0.6 meter) of freeboard (vertical space between the top of the load and the top of the trailer) in accordance with the requirements of California Vehicle Code Section 23114. • Reduce traffic speeds on all unpaved roads to 15 miles per hour or less.	City of Upland Development Services Director, or designee.	During construction.	Evidence to the City fugitive dust reduction measures are implemented.		Issuance of a stop work order.
Biological Resources					
MITIGATION MEASURE BIO-1: Prior to the issuance of a grading permit, a pre-construction burrowing owl clearance survey shall be conducted by a qualified biologist within 14 days prior to the beginning of project construction to determine if the project site contains suitable burrowing owl habitat and to avoid any potential impacts to the species. The survey shall include 100 percent coverage of the project site, plus 150-meter buffer to ensure no owls have emigrated onto the site. If the burrowing owl survey reveals no	City of Upland Development Services Director, or designee.	Prior to issuance of grading permit and prior to commencement of ground disturbance activities.	Evidence to the City the required pre-construction survey has been completed.		Withhold grading permit or issuance of a stop work order.

Project Name: West Foothill Development Project **Applicant:** **Magellan Value Partners, LLC.**

Date: **November 9, 2023**

Mitigation Measure No. / Implementing Action	Responsible for Monitoring	Timing of Verification	Method of Verification	Verified Date/ Initials	Sanctions for Non-Compliance
burrowing owls are present, no additional actions related to this measure are required. If occupied burrows are found within the development footprint during the pre-construction clearance survey, **Mitigation Measure BIO-2** shall apply.					
MITIGATION MEASURE BIO-2: If occupied burrows are found within the development footprint during the pre-construction burrowing owl survey, site-specific buffer zones shall be established by the qualified biologist through consultation with the California Department of Fish and Wildlife (CDFW). The buffer zones may vary depending on burrow location and burrowing owl sensitivity to human activity, and no construction activity shall occur within a buffer zone(s) until appropriate avoidance and minimization measures are determined through consultation with the CDFW. As part of the consultation process, the CDFW may require some or all of the following avoidance and minimization measures: • Preparation of a burrowing owl relocation/translocation plan describing the methodology for passive and active relocation of burrowing owls from the project site, a monitoring strategy, and long-term conservation of relocated owls for submittal to the CDFW for approval prior to ground-disturbing activities. • Replacement of burrowing owl habitat acreage in accordance with the guidelines provided in Appendix A of the Staff Report on Burrowing Owl Mitigation, State of California Natural Resource Agency, Department of Fish and Game, May 7, 2012.	City of Upland Development Services Director, or designee.	Prior to the commencement of ground disturbance activities and during construction.	Evidence to the City the required pre-construction survey has been completed and, if necessary, appropriate buffer zones are established, the CDFW is sent written notification and a burrowing owl relocation/translocation plan is prepared and applicable provisions of the burrowing owl relocation/translocation plan have been satisfied.		Withhold grading permit or issuance of a stop work order.

Project Name: West Foothill Development Project **Applicant:** **Magellan Value Partners, LLC.**

Date: **November 9, 2023**

Mitigation Measure No. / Implementing Action	Responsible for Monitoring	Timing of Verification	Method of Verification	Verified Date/ Initials	Sanctions for Non-Compliance
• Establishment of permanent conservation lands comprised of similar vegetation communities to provide for burrowing owl nesting, foraging, wintering, and dispersal (i.e., during breeding and non-breeding seasons) comparable to or better than that of the impact area. Such conservation lands must be of sufficiently large acreage and be occupied by fossorial mammals. Conservation lands may require habitat enhancements including enhancement or expansion of burrows for breeding, shelter and dispersal opportunity, and removal or control of population stressors as determined by the CDFW. If the conservation lands are located adjacent to the impacted burrow site, the nearest neighbor artificial or natural burrow clusters must be at least within 210 meters of the impacted burrow site. • Development and implementation of a mitigation land management plan to address long-term ecological sustainability and maintenance of the site for burrowing owls. • Funding of maintenance and management of mitigation land through the establishment of a long-term funding mechanism such as an endowment. • Restoration of any temporarily disturbed areas to the pre-project condition, including decompacting soil and revegetating. This measure shall be implemented to the satisfaction of the City's Planning Division and the CDFW.					

Project Name: West Foothill Development Project **Applicant:** **Magellan Value Partners, LLC.**

Date: **November 9, 2023**

Mitigation Measure No. / Implementing Action	Responsible for Monitoring	Timing of Verification	Method of Verification	Verified Date/ Initials	Sanctions for Non-Compliance
MITIGATION MEASURE BIO-3: If demolition or ground disturbance is proposed during nesting bird season (February 15 to August 31), a pre-construction nesting survey shall be conducted by a qualified biologist (Project Biologist) within 72 hours prior to start of work pursuant to Sections 3503–3801 of the California Fish and Game Code. If the survey indicates nesting birds are present, an appropriate buffer to be established by the Project Biologist shall be marked off around the nest(s), and no demolition or construction activity shall occur in that area during nesting activities. Demolition and/or construction may resume within the established buffer when the Project Biologist determines the nest is no longer occupied and all juveniles have left the nest. To the greatest extent feasible, tree trimming/removal activities shall be performed outside of the nesting season for birds (February 1–August 31). If trimming or removal of trees during the nesting bird season cannot be avoided, a qualified biologist shall monitor tree trimming and removal activities. If possible, night work shall be avoided during the nesting bird season(February 1–August 31). If night work (i.e., between dusk and dawn) is anticipated within 100 feet of an active bird nest and/or nest exclusionary buffer, night lighting shall be used only in areas of active work and focused on the direct area(s) of work and away from nesting locations to the greatest extent practicable. The qualified biologist shall adjust the exclusionary buffer size to decrease the possibility of disturbance by night work, if warranted. This measure would minimize disturbance and prevent nest failure. If birds are showing signs of distress, such as flushing	City of Upland Development Services Director, or designee.	Within 72 hours prior to start of work.	Evidence to the City a qualified biologist is retained, the required pre-construction survey has been completed, and, if necessary, appropriate buffers are established and monitored until the nesting effort is finished.		Issuance of a stop work order.

Project Name: West Foothill Development Project **Applicant:** **Magellan Value Partners, LLC.**

Date: **November 9, 2023**

Mitigation Measure No. / Implementing Action	Responsible for Monitoring	Timing of Verification	Method of Verification	Verified Date/ Initials	Sanctions for Non-Compliance
from their nests, work activities shall be modified to prevent the nest from being abandoned. This measure shall be implemented to the satisfaction of the City of Upland Development Services Director or designee.					
CULTURAL RESOURCES					
MITIGATION MEASURE CUL-1: 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 Yuhaaviatam of San Manuel Nation Cultural Resources Department (YSMN) shall be contacted, as detailed within **TCR-1**, 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.	City of Upland Development Services Director, or designee	During construction.	Evidence to the City: 1) A professional archaeologist meeting the Secretary of the Interior's Professional Standards for Archaeology is retained; 2) Establish appropriate buffers; 3) Consult with the Yuhaaviatam of San Manuel Nation Cultural Resources Department; and 4) Treatment of unanticipated encounters pursuant to California Public Resources Code Section 21083.2(b) and Assembly Bill 52 (Chapter 532, Statutes of 2014)		Issuance of a stop work order.
MITIGATION MEASURE CUL-2: 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	City of Upland Development Services	During construction.	Evidence to the City: 1) A professional archaeologist prepares Monitoring and Treatment		Issuance of a stop work order.

Project Name: West Foothill Development Project **Applicant: Magellan Value Partners, LLC.**

Date: November 9, 2023

Mitigation Measure No. / Implementing Action	Responsible for Monitoring	Timing of Verification	Method of Verification	Verified Date/ Initials	Sanctions for Non-Compliance
and Treatment Plan, the drafts of which shall be provided to YSMN for review and comment, as detailed within **TCR-1**. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly.	Director, or designee		Plan and submits it to the YSMN for review and comment; and 2) The archaeologist monitors the remainder of the project and implements the Plan accordingly.		
MITIGATION MEASURE CUL-3: 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.	City of Upland Development Services Director, or designee.	During construction	Evidence to the City: 1) Appropriate buffer areas have been established as applicable; and 2) Contact County Coroner as necessary.		Issuance of a stop work order.
GEOLOGY AND SOILS					
MITIGATION MEASURE GEO-1: Prior to issuance of grading and/or building permits, the Project Applicant shall provide evidence to the City of Upland (City) for review and approval that proposed structures, features, and facilities have been designed and would be constructed in conformance with applicable provisions of the 2022 edition of the California Building Code (CBC) or the most current edition of the CBC in effect at the time the Project Applicant's development application is deemed complete by the City. Additionally, the Project Applicant shall prepare a site-specific geotechnical report for the project and provide evidence to the City that the recommendations cited in the geotechnical report are incorporated into project plans and/or implemented as deemed appropriate by the City. Geotechnical recommendations may include, but are not	City of Upland Director of Building and Safety, or designee.	Prior to issuance of grading and/or building permits and during construction.	Evidence to the City: 1) Design-level plans comply with California Building Code in effect at the time of development application submittal; 2) Preparation of a site-specific geotechnical report and recommendations in the geotechnical report are incorporated as applicable.		Withhold grading and/or building permits and/or issuance of a stop work order.

Project Name: West Foothill Development Project **Applicant:** **Magellan Value Partners, LLC.**

Date: **November 9, 2023**

Mitigation Measure No. / Implementing Action	Responsible for Monitoring	Timing of Verification	Method of Verification	Verified Date/ Initials	Sanctions for Non-Compliance
limited to, removal of existing vegetation, structural foundations, floor slabs, utilities, septic systems, and any other surface and subsurface improvements that would not remain in place for use with the new development. Remedial earthwork, overexcavation, and ground improvement shall occur to depths specified in the geotechnical report to provide a sufficient layer of engineered fill or densified soil beneath the structural footings/foundations, as well as proper surface drainage devices and erosion control. Fill soils shall consist of very low expansive soils. Construction of concrete structures in contact with subgrade soils determined to be corrosive shall include measures to protect concrete, steel, and other metals. Verification testing must be performed upon completion of ground improvements to confirm that the compressible soils have been sufficiently densified. The structural engineer must determine the ultimate thickness and reinforcement of the building floor slabs based on the imposed slab loading. As necessary, the City may require additional studies and/or engineering protocols to meet its requirements. This measure shall be implemented to the satisfaction of the City Director of Building and Safety or designee.					
HAZARDS AND HAZARDOUS MATERIALS					
MITIGATION MEASURE HAZ-1: An asbestos-containing materials (ACM) survey shall be completed for all structures proposed for demolition. A Certified Asbestos Consultant shall conduct the ACM survey. If the ACM survey reveals no detectable lead levels pursuant to Title 8, California Code of Regulations Section 1529, no further ACM survey or remedial work is required. However, if a detectable level of asbestos is identified within structures proposed for demolition, **Mitigation Measure HAZ-2** shall apply. This	City of Upland Development Services Director or designee, and/or Building and Safety	Prior to issuance of demolition permit.	Evidence to the City an Asbestos-containing materials (ACM) survey is completed.		Withhold demolition permit.

Project Name: West Foothill Development Project **Applicant: Magellan Value Partners, LLC.**

Date: November 9, 2023

Mitigation Measure No. / Implementing Action	Responsible for Monitoring	Timing of Verification	Method of Verification	Verified Date/ Initials	Sanctions for Non-Compliance
measure shall be implemented to the satisfaction of the City of Upland Development Services Director or designee, and/or Building and Safety Division, or designee.	Division, or designee.				
MITIGATION MEASURE HAZ-2: Prior to the demolition of any structure identified to contain asbestos-containing materials (ACM), the Project Applicant shall retain a Certified Asbestos Consultant to abate ACM from the demolition site pursuant to South Coast Air Quality Management District (SCAQMD) Rule 1403. An Asbestos Notification shall be prepared and submitted to the SCAQMD for approval if abatement of at least 100 square feet or 160 linear feet of ACM above one percent asbestos is required. The Certified Asbestos Consultant shall provide a construction and demolition plan with disposal tickets from a San Bernardino County Department of Public Works-Solid Waste Management Division-approved disposal facility and SCAQMD air clearances prior to any asbestos removal activity, and an asbestos report shall be provided to the City prior to the issuance of a demolition permit. This measure shall be implemented to the satisfaction of the City of Upland Development Services Director or designee, and/or Building and Safety Division, or designee.	City of Upland Development Services Director or designee, and/or Building and Safety Division, or designee.	Prior to asbestos removal activity and prior to demolition of any structure identified to contain asbestos-containing materials.	Evidence to the City: 1) A Certified Asbestos Consultant is retained to abate ACM pursuant to SCAQMD Rule 1403; 2) Asbestos Notification is prepared and submitted to the SCAQMD, as applicable; 3) Preparation of a construction and demolition plan with disposal tickets from a San Bernardino County Department of Public Works-Solid Waste Management Division-approved disposal facility and SCAQMD air clearances; and 4) Asbestos report provided to the City.		Withhold demolition permit or issuance of a stop work order.
MITIGATION MEASURE HAZ-3: A lead-based materials (LBM) survey shall be completed for all structures proposed for demolition. A qualified California Department of Public Health Lead Inspector Assessor shall conduct the LBM survey. If the LBM survey reveals no detectable lead levels	City of Upland Development Services Director or designee,	Prior to issuance of demolition permit.	Evidence to the City a lead-based materials (LBM) survey is completed.		Withhold demolition permit.

Project Name: West Foothill Development Project **Applicant: Magellan Value Partners, LLC.**

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pursuant to Code of Federal Regulations Chapter 29, Section 1926.62 and Title 8, California Code of Regulations Section 1532.1, no further LBM survey or remedial work is required. However, if a detectable level of lead is identified within structures proposed for demolition, **Mitigation Measure HAZ-4** shall apply. This measure shall be implemented to the satisfaction of the City of Upland Development Services Director or designee, and/or Building and Safety Division, or designee.	and/or Building and Safety Division, or designee.				
MITIGATION MEASURE HAZ-4: Prior to the demolition of any structure identified to contain lead-based materials (LBM), the Project Applicant shall retain a California Department of Public Health Lead Inspector Assessor to abate LBM from the demolition site. The Lead Inspector Assessor shall provide a construction and demolition plan with disposal tickets from a San Bernardino County Department of Public Works-Solid Waste Management Division-approved disposal facility and South Coast Air Quality Management District air clearances prior to any lead removal activity, and a lead report shall be provided to the City prior to the issuance of a demolition permit. This measure shall be implemented to the satisfaction of the City of Upland Development Services Director or designee, and/or Building and Safety Division, or designee.	City of Upland Development Services Director or designee, and/or Building and Safety Division, or designee.	Prior to lead-based materials removal activity and prior to demolition of any structure identified to contain lead-based materials.	Evidence to the City: 1) A California Department of Public Health Lead Inspector Assessor is retained to abate LBM; 2) Preparation of a construction and demolition plan with disposal tickets from a San Bernardino County Department of Public Works-Solid Waste Management Division-approved disposal facility and SCAQMD air clearances; and 3) Lead report provided to the City.		Withhold demolition permit or issuance of a stop work order.
MITIGATION MEASURE HAZ-5: Prior to issuance of grading permits, the Project Applicant shall submit evidence that the existing on-site septic system would be removed pursuant to applicable regulations established by San Bernardino County	City of Upland Public Works Department and/or San	Prior to issuance of grading permit.	evidence that the existing on-site septic system would be removed pursuant to applicable regulations		Withhold grading permit.

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Department of Environmental Health Services (DEHS) and California Plumbing Code Section 722. During ground-disturbance activities, the on-site septic tank shall be removed under the inspection of the project geotechnical engineer and recommendations provided by the geotechnical engineer and/or City, County, or State agencies. This measure shall be implemented to the satisfaction of the City's Public Works Department and/or San Bernardino County DEHS.	Bernardino County DEHS.		established by San Bernardino County Department of Environmental Health Services (DEHS) and California Plumbing Code Section 722.		
NOISE					
MITIGATION MEASURE NOI-1: The construction contractor shall restrict heavy construction (e.g., large bulldozers and loaded trucks) or require the use of light construction equipment (e.g., small bulldozers and pick-up trucks) within 15 feet of a building structure. In addition, the project proponent will include this mitigation measure in the detailed grading plans for the project site prior to the issuance of grading permits.	City of Upland Development Services Director or designee, and/or Building and Safety Division, or designee.	Prior to issuance of grading permit and during construction.	Evidence to the City this mitigation measure is included in the detailed grading plans for the project and heavy construction equipment is prohibited within 15 feet of buildings/structures.		Withhold grading permit or issuance of a stop work order.
TRIBAL CULTURAL RESOURCES					
MITIGATION MEASURE TCR-1: The Yuhaaviatam of San Manuel Nation Cultural Resources Department (YSMN) shall be contacted, as detailed in **Mitigation Measure CUL-1**, 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 YSMN, and all subsequent finds shall be	City of Upland Development Services Director or designee.	During construction.	Evidence to the City: 1) The Yuhaaviatam of San Manuel Nation Cultural Resources Department is notified of any pre-contact and/or historic-era cultural resources discovered during project implementation; and 2) A cultural resources		Issuance of a stop work order.

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subject to this Plan. This Plan shall allow for a monitor to be present that represents YSMN for the remainder of the project, should YSMN elect to place a monitor on-site.			Monitoring and Treatment Plan is created and implemented by the archaeologist, in coordination with YSMN.		
MITIGATION MEASURE TCR-2: 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 YSMN. The Lead Agency and/or applicant shall, in good faith, consult with YSMN throughout the life of the project.	City of Upland Development Services Director or designee.	During construction and prior to issuance of occupancy permit.	All archaeological/cultural documents created as a part of the project be supplied to the applicant and Lead Agency for dissemination to YSMN.		Issuance of a stop work order or withhold occupancy permit.

STANDARD CONDITIONS

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Regulatory Compliance Measure No. / Implementing Action	Responsible for Monitoring	Timing of Verification	Method of Verification	Verified Date/ Initials	Sanctions for Non-Compliance
GEOLOGY AND SOILS					
STANDARD CONDITION GEO-1: Prior to issuance of grading permits, the City of Upland (City) shall verify that the following note is included on all grading plans: *"If paleontological resources are encountered during the course of ground disturbance, work within 60 feet of the find shall be halted, and an exclusionary buffer shall be established. A qualified paleontologist (defined as an individual with an M.S. or Ph.D. in paleontology or geology who is experienced with paleontological procedures and techniques, who is knowledgeable in the geology of California, and who has worked as a paleontological mitigation project supervisor for a least one year) shall be contacted to assess the find for scientific significance. Construction personnel shall not collect or move any suspected paleontological materials or further disturb any soils within the exclusionary buffer without the consent of the paleontologist and the City Development Services Director, but construction activity may continue unimpeded on other portions of the project site. If the paleontologist determines the find is not a paleontological resource, no further evaluation shall be required within the exclusionary buffer, and construction activity shall be allowed to resume therein. However, if the paleontologist determines the find is a paleontological resource, construction activity shall not resume within the exclusionary buffer, and Standard Condition GEO-2 shall apply."* This measure shall be implemented to the satisfaction of the City Development Services Director or designee.	City of Upland Development Services Director, or designee.	Prior to issuance of grading permit.	Evidence to the City the condition protecting paleontological resources is included in the project grading plans.		Withhold grading permit.

STANDARD CONDITION GEO-2: If the qualified paleontologist determines paleontological resources are encountered on the project site, the paleontologist shall prepare a Paleontological Resource Impact Mitigation Plan (PRIMP) to be implemented during the balance of ground-disturbing activities. Implementation of the PRIMP shall include (but not be limited to) the following: • Review of project-specific geotechnical report data, with particular regard to location and depth of earthmoving and the rock unit(s) encountered; • Development of a formal agreement between the Project Applicant and the San Bernardino County Museum, Natural History Museum of Los Angeles County, Western Science Center, San Diego Natural History Museum, Riverside Municipal Museum, or other accredited museum repository for the final disposition, permanent storage, and maintenance of any fossil collections and associated data; • The construction schedule, term/schedule of on-site paleontological monitor(s) and the extent of areas and activities to be monitored; • Authority of paleontological monitor(s) to temporarily redirect construction activity in the vicinity of any paleontological discovery; • Procedures for the evaluation and option to recover large fossil specimens and for the evaluation, recovery, and processing of small fossil specimens; • Fossil specimen preparation, identification to the lowest taxonomic level possible, curation, and cataloging; and • A report of findings. The paleontologist shall monitor remaining ground-disturbing activities in native soils at the project site and shall be equipped to record and salvage fossil resources that may be unearthed during construction. The paleontologist shall	City of Upland Development Services Director, or designee.	During construction.	Evidence to the City: 1) Project paleontologist prepares a Paleontological Resource Impact Mitigation Monitoring Program (PRIMMP); 2) Project proponent/developer retains a qualified paleontologist for monitoring; 3) Adequate provisions are in place to protect or retrieve/record/evaluate paleontological resources; 4) Formal agreement between the project applicant and appropriate repository for fossils; 1) Submittal of required evaluation and report by a qualified paleontologist to the City.		Issuance of a stop work order.

temporarily halt or divert construction equipment to allow recording and removal of the unearthed resources. Significant fossils shall be offered for curation at an accredited museum repository in accordance with the PRIMP. A report of findings, including, when appropriate, an itemized inventory of recovered specimens and a discussion of their significance, shall be prepared upon completion of the steps outlined above. The report and inventory, when submitted to and approved by the City of Upland (City), would signify completion of the program. This measure shall be implemented to the satisfaction of the City Development Services Director or designee.					
HYDROLOGY AND WATER QUALITY					
STANDARD CONDITION HYD-1: Construction General Permit. Prior to issuance of a grading permit, the Project Applicant shall obtain coverage under the State Water Resources Control Board (SWRCB) National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities (Order No. 2022-0057-DWQ, National Pollutant Discharge Elimination System No. CAS000002) (Construction General Permit). This shall include submission of Permit Registration Documents (PRDs), including a Notice of Intent for coverage under the permit to the State Water Resources Control Board (SWRCB) via the Stormwater Multiple Application and Report Tracking System (SMARTs). The Project Applicant shall provide the Waste Discharge Identification Number (WDID) to the City of Upland (City), or designee, to demonstrate proof of coverage under the Construction General Permit. Project construction shall not be initiated until a WDID is received from the SWRCB and is provided to the City, or designee. A Stormwater Pollution Prevention Plan (SWPPP) shall be prepared and implemented for the proposed project in compliance with the requirements of the Construction General Permit. The SWPPP shall identify construction best management practices (BMPs) to be implemented to ensure that the potential for soil erosion and sedimentation is minimized and to control the discharge of pollutants in stormwater runoff as	City of Upland Director of Public Works Department, or designee.	Prior to construction.	Evidence to the City a Waste Discharge Identification Number (WDID) is obtained for the project from the SMARTS.		Withhold grading permit and/or issuance of a stop work order.

a result of construction activities. Upon completion of construction and stabilization of the site, a Notice of Termination shall be submitted via SMARTs.					
STANDARD CONDITION HYD-2: Prior to the commencement of any land disturbing activities, the Project Applicant shall obtain coverage under the Construction General Permit and develop a Stormwater Pollution Prevention Plan to the City for review and approval that incorporates Best Management Practices to prevent erosion and protect water quality during construction activities pursuant to Chapter 13.32.470 of the City Municipal Code.	City of Upland Director of Public Works Department, or designee.	Prior to construction.	Evidence to the City a Stormwater Pollution Prevention Plan (SWPPP) is prepared and implemented for the project.		Issuance of a stop work order.
STANDARD CONDITION HYD-3: Prior to issuance of a grading permit, the Project Applicant shall submit a Final Water Quality Management Plan (Final WQMP) to the City of Upland (City) for review and approval in compliance with the requirements of the Santa Ana RWQCB's NPDES Permit Waste Discharge Requirements for the San Bernardino County Flood Control District, the County of San Bernardino, and the Incorporated Cities of San Bernardino County Within the Santa Ana Region Area-Wide Urban Stormwater Runoff Management Program (Order No. R8-2010-0036, NPDES No. CAS618036) (San Bernardino County MS4 Permit). The Final WQMP shall specify the Best Management Practices (BMPs) to be incorporated into the project design to target pollutants of concern in stormwater runoff from the project site and the necessary operation and maintenance activity for each BMP. The City shall ensure that the BMPs specified in the Final WQMP are incorporated into the final project design. The proposed BMPs specified in the Final WQMP shall be incorporated into the grading and development plans submitted to the City for review and approval. Project occupancy and operation shall be in accordance with the schedule outlined in the WQMP.	City of Upland Director of Public Works Department, or designee.	Prior to the issuance of grading permit.	Submittal to City of a Final Water Quality Management Plan (Final WQMP).		Withhold grading permit.
STANDARD CONDITION HYD-4: Prior to issuance of a grading permit, the Project Applicant shall submit applicable project design plans that incorporate the stormwater management requirements outlined in Chapter 13.32, Article IV of the City of Upland's Municipal Code to the City for review and approval.	City of Upland Director of Public Works Department, or designee.	Prior to the issuance of grading permit.	Submittal to City of applicable project design plans.		Withhold grading permit.

NOISE					
STANDARD CONDITION NOI-1: The construction contractor shall limit construction activities to between the hours of 7:00 a.m. and 6:00 p.m. on weekdays pursuant to Section 9.40.100(M) of the City's Municipal Code (City of Upland 2022). Construction is prohibited outside these hours during weekdays and anytime on weekends.	City of Upland Development Services Director, or designee.	During construction.	Evidence to the City the construction contractor limits construction activities to between the hours of 7:00 a.m. and 6:00 p.m. on weekdays; no construction on weekends.		Issuance of a stop work order.